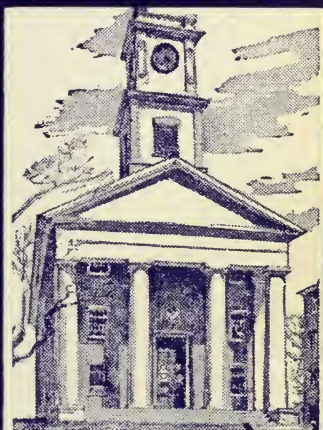


Amherst College
Bulletin

CATALOG ISSUE 1960-61

VOLUME 50 • OCTOBER, 1960 • NUMBER 1





Digitized by the Internet Archive
in 2014

AMHERST COLLEGE BULLETIN



Catalog Issue
1960-1961

VOLUME 50

OCTOBER, 1960

NUMBER 1

This is Amherst, an illustrated booklet describing life at Amherst College and *Costs and Financial Aid at Amherst*, are available on request from the Dean of Admission.

AMHERST COLLEGE BULLETIN

Published in October, November, January and April
by Amherst College, Amherst, Massachusetts

Entered as second-class matter at the Post Office at Amherst, Massachusetts
under the Act of August 24, 1912.

VOLUME 50

OCTOBER, 1960

NUMBER 1

Contents

CALENDAR	4
COLLEGE CALENDAR	5
THE CORPORATION	6
OFFICERS OF ADMINISTRATION	8
FACULTY	9
AMHERST COLLEGE	18
THE FOLGER SHAKESPEARE LIBRARY	25
THE MERRILL CENTER FOR ECONOMICS	26
DOSHISHA UNIVERSITY	26
I. GENERAL INFORMATION	27
Admission	29
Regulations	33
Tuition and Fees	37
Scholarships and Beneficiary Aid	39
Degree Requirements	42
Faculty Statement on Intellectual Responsibility	47
II. COURSES OF INSTRUCTION	49
Course Descriptions by Departments	51
III. LECTURESHIPS, HONORS, FELLOWSHIPS, PRIZES AND AWARDS	133
Lectureships	135
Honors	136
Fellowships	139
Prizes and Awards	146
Degrees Conferred, 1959 and 1960	158
IV. ENROLLMENT	165
V. THE ALUMNI ASSOCIATIONS	193
VI. APPENDIX	201
INDEX	209

JULY						
S	M	T	W	T	F	S
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	...	...	...	...	...	...
AUGUST						
S	M	T	W	T	F	S
7	1	2	3	4	5	6
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	...	...	...
...
SEPTEMBER						
S	M	T	W	T	F	S
4	5	6	7	1	2	3
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	...
...
OCTOBER						
S	M	T	W	T	F	S
2	3	4	5	6	7	1
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	...	...	...	...	...
...
NOVEMBER						
S	M	T	W	T	F	S
6	7	1	2	3	4	5
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	...	...	...
...
DECEMBER						
S	M	T	W	T	F	S
4	5	6	7	1	2	3
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
...

JANUARY						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	..	..	..	..
FEBRUARY						
S	M	T	W	T	F	S
..	..	..	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	..	..	..	..
..
MARCH						
S	M	T	W	T	F	S
..	..	..	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	..
..
APRIL						
S	M	T	W	T	F	S
..	..	..	..	..	..	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	..	..	..	..	..	..
MAY						
S	M	T	W	T	F	S
..	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	..	..	..
..
JUNE						
S	M	T	W	T	F	S
..	..	..	..	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	..
..

JULY						
S	M	T	W	T	F	S
..	..	..	..	..	..	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	..	..	..	..	..
AUGUST						
S	M	T	W	T	F	S
..	..	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	..	..
..
SEPTEMBER						
S	M	T	W	T	F	S
..	..	..	..	..	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
..
OCTOBER						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	..	..	..	..
..
NOVEMBER						
S	M	T	W	T	F	S
..	..	..	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	..	..
..
DECEMBER						
S	M	T	W	T	F	S
..	..	..	..	..	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	..	..	..	..	..	..

College Calendar

1960

Sept. 14	<i>Wednesday</i>	Beginning of Freshman Orientation
Sept. 18	<i>Sunday, 2:00 p.m.</i>	Opening College Convocation
Sept. 19	<i>Monday, 8:00 a.m.</i>	Beginning of Classes
Oct. 22	<i>Saturday (a holiday)</i>	Wesleyan Football Game at Middletown
Oct. 30	<i>Sunday</i>	Inauguration of President Calvin H. Plimpton
Nov. 12	<i>Saturday (a holiday)</i>	Williams Football Game
Nov. 23	<i>Wednesday, 12:50 p.m.</i>	Beginning of Thanksgiving Recess
Nov. 28	<i>Monday, 8:00 a.m.</i>	End of Thanksgiving Recess
Dec. 17	<i>Saturday, 11:50 a.m.</i>	Beginning of Christmas Recess

1961

Jan. 4	<i>Wednesday, 8:00 a.m.</i>	End of Christmas Recess
Jan. 16	<i>Monday</i>	First Semester Examination Period
Jan. 21	<i>Saturday</i>	
Jan. 26	<i>Thursday, 8:00 a.m.</i>	
Mar. 22	<i>Wednesday, 5:00 p.m.</i>	Beginning of Second Semester
Mar. 25	<i>Saturday, 5:00 p.m.</i>	End of Classes before Spring Recess
Apr. 10	<i>Monday, 8:00 a.m.</i>	End of Rushing Period
May 13	<i>Saturday (a holiday)</i>	End of Spring Recess
May 29	<i>Monday</i>	Dance Holiday
June 3	<i>Saturday</i>	Second Semester Examination Period
June 11	<i>Sunday</i>	
Sept. 21	<i>Thursday</i>	
Sept. 24	<i>Sunday</i>	Commencement
Sept. 25	<i>Monday</i>	Beginning of Freshman Orientation
Oct. 28	<i>Saturday (a holiday)</i>	Opening College Convocation
Nov. 18	<i>Saturday (a holiday)</i>	Beginning of Classes
Nov. 22	<i>Wednesday</i>	Wesleyan Football Game
Nov. 27	<i>Monday</i>	Williams Football Game at Williams-town
Dec. 16	<i>Saturday</i>	Beginning of Thanksgiving Recess
		End of Thanksgiving Recess
		Beginning of Christmas Recess

1962

Jan. 3	<i>Wednesday</i>	End of Christmas Recess
Jan. 22	<i>Monday</i>	First Semester Examination Period
Jan. 27	<i>Saturday</i>	
Feb. 1	<i>Thursday</i>	
Mar. 21	<i>Wednesday</i>	Beginning of Second Semester
Mar. 24	<i>Saturday</i>	End of Classes before Spring Recess
Apr. 9	<i>Monday</i>	End of Rushing Period
May 12	<i>Saturday</i>	End of Spring Recess
June 4	<i>Monday</i>	Dance Holiday
June 9	<i>Saturday</i>	Second Semester Examination Period
June 17	<i>Sunday</i>	
		Commencement

The calendar for the academic year 1961-62 is subject to change

The Corporation

JOHN JAY McCLOY, LL.B., LL.D.

New York, N. Y.

Chairman of the Corporation

CALVIN HASTINGS PLIMPTON, M.A., M.D., MED.SCI.D., LL.D. Amherst, Mass.

President of the College

PAUL DYESS WEATHERS, M.B.A.

Amherst, Mass.

Treasurer of the Corporation

EUSTACE SELIGMAN, LL.B.

New York, N. Y.

FRANK LEAROYD BOYDEN, SC.D., PD.D., LITT.D., L.H.D., LL.D.

Deerfield, Mass.

HENRY SELDEN KINGMAN, B.A.

Minneapolis, Minn.

FRANCIS TAYLOR PEARSONS PLIMPTON, LL.B., LL.D.

New York, N. Y.

CHARLES BELCHER RUGO, M.A., LL.B.

Boston, Mass.

JULIUS SEELYE BIXLER, PH.D., D.D., L.H.D., LL.D., D.C.L.

Jaffrey, N. H.

WINTHROP HIRAM SMITH, B.A.

New York, N. Y.

KENDALL BUSH DEBEVOISE, LL.B.

New York, N. Y.

WALTER GELLHORN, LL.B., L.H.D.

New York, N. Y.

* PHILIP HALL COOMBS, B.A.

Old Greenwich, Conn.

* HENRY HARRISON FULLER

Burlingame, Calif.

* STANLEY FERDINAND TEELE, L.H.D.

Boston, Mass.

* JESSE McLANE TROTTER, B.D., D.D.

Alexandria, Va.

* JOHN ANTHONY HILL, LL.B.

New York, N. Y.

* FREDERIC MURRAY HADLEY, B.A.

Indianapolis, Ind.

JAMES ALFRED GUEST, LL.B.

Amherst, Mass.

Secretary of the Corporation

TRUSTEES EMERITI †

ROBERT WASHBURN MAYNARD, LL.B.

Boston, Mass.

ARTHUR LEE KINSOLVING, D.D.

New York, N. Y.

LEWIS WILLIAMS DOUGLAS, LL.D.

Phoenix, Ariz.

ARTHUR FAIRBANKS ELLS, LL.D.

Litchfield, Conn.

* The terms of the Alumni Trustees expire as follows: PHILIP HALL COOMBS, 1961; HENRY HARRISON FULLER, 1962; STANLEY FERDINAND TEELE, 1963; JESSE McLANE TROTTER, 1964. JOHN ANTHONY HILL, 1965, FREDERIC MURRAY HADLEY, 1966.

† A life trustee who resigns shall be eligible for election by the Board of Trustees as trustee emeritus if in the opinion of the Board of Trustees he shall have rendered outstanding service to the College during his trusteeship. A trustee emeritus shall have all the privileges of a member of the Board except that of voting at the meetings of the Board. The trustees emeriti shall retain the processional order which they held at the time of their retirement. (Adopted by the Board of Trustees of Amherst College, January 17, 1943.)

*Committees of the Corporation**

The Chairman of the Corporation and the President of the College are members, *ex officiis*, of all committees.

Executive Committee: MESSRS. BASSETT, COOMBS, DEBEVOISE, ELLS, KINGMAN, McCLOY (Chairman), PLIMPTON, RUGG, SELIGMAN, SMITH, TEELE.

Investment Committee: MESSRS. FULLER, KINGMAN (Chairman), PLIMPTON, RUGG, SMITH, TEELE, WEATHERS.

Budget and Finance Committee: MESSRS. BASSETT, COOMBS, FULLER, HILL, KINGMAN, PLIMPTON, SELIGMAN, SMITH, TEELE (Chairman), WEATHERS.

Instruction Committee: MESSRS. BASSETT, BIXLER, BOYDEN, COOMBS, DEBEVOISE, PLIMPTON (Chairman), SELIGMAN, TEELE, TROTTER.

Buildings and Grounds Committee: MESSRS. BASSETT (Chairman), BIXLER, BOYDEN, DEBEVOISE, FULLER, HILL, KINGMAN, SMITH, WEATHERS.

Honorary Degrees Committee: MESSRS. BIXLER, BOYDEN, COOMBS, ELLS, RUGG (Chairman), TEELE, TROTTER.

Folger Shakespeare Library Committee: MESSRS. BASSETT, BIXLER, FULLER, PLIMPTON, SELIGMAN (Chairman), TROTTER, WEATHERS.

Joseph B. Eastman Foundation Committee: MESSRS. DEBEVOISE, FULLER, KINGMAN, RUGG (Chairman), SELIGMAN.

Committee on Fraternities: MESSRS. BASSETT, BIXLER, DEBEVOISE (Chairman), ELLS, RUGG, TROTTER.

Merrill Center for Economics Committee: MESSRS. COOMBS, FULLER, PLIMPTON, SELIGMAN, SMITH (Chairman), TEELE.

Pension Committee: MESSRS. BASSETT, COOMBS (Chairman), HILL, KINGMAN, SELIGMAN, SMITH, TEELE, WEATHERS.

* The committee listings are for 1959-60. The Corporation organizes itself at its fall meeting for each academic year.

Officers of Administration

CALVIN HASTINGS PLIMPTON, M.D., M.A., MED. SCI.D., LL.D.	<i>President</i>
CHARLES SCOTT PORTER, M.A., L.H.D.	<i>Dean</i>
EUGENE SMITH WILSON, B.A.	<i>Dean of Admission</i>
THEODORE SPAULDING BACON, JR., M.G.P.	<i>Associate Dean</i>
JOHN CUSHING ESTY, JR., M.A.	<i>Associate Dean</i>
WILLIAM MOORE DIETEL, PH.D.	<i>Assistant Dean</i>
CORTLAND VAN RENSSELAER HALSEY, PH.D.	<i>Assistant Dean of Admission</i>
ROBERT FREEMAN GROSE, PH.D.	<i>Registrar</i>
PAUL DYESS WEATHERS, M.B.A.	<i>Treasurer</i>
MINOT GROSE, B.A.	<i>Business Manager and Assistant Treasurer</i>
GEORGE BURNHAM MAY, B.A.	<i>Comptroller</i>
ROBERT HERMAN HEIDRICH, A.E.E., P.E.	<i>College Engineer and Superintendent of Buildings and Grounds</i>
GORDON BENJAMIN BRIDGES, M.A.	<i>Director of Dining Halls and Director of Personnel</i>
DAVID SHEPHERD KING, S.T.M.	<i>Chaplain</i>
ROGER ALLING, JR., M.A.	<i>Assistant Chaplain</i>
† ALBERT ERNEST LUMLEY, M.A.	<i>Chairman of the Department of Physical Education and Athletics</i>
ELLSWORTH ELLIOTT RICHARDSON, M.A.	<i>Director of Freshman Physical Education and Athletics</i>
STEPHEN BROWN, M.D.	<i>College Physician</i>
OSCAR DONALD CHRISMAN, M.D.	<i>Associate College Physician</i>
HASKELL ROBERT COPLIN, PH.D.	<i>Student Counselor</i>
PAUL HAROLD SETON, M.D.	<i>Assistant College Physician</i>
MARY MARGARET BARKOWSKI, R.N.	<i>Supervisor of Student Health Office</i>
MARJORIE RUTH CROSSMANN, R.N.	<i>Assistant Supervisor of Student Health Office</i>
HELEN BOLT STIMSON, R.N.	<i>Supervisor of the Infirmary</i>
JAMES ALFRED GUEST, LL.B.	<i>Secretary of the Alumni Council</i>
JOHN CUSHING ESTY, B.A.	<i>Assistant to the Secretary of the Alumni Council</i>
SYDNEY DAKIN CHAMBERLAIN, B.A.	<i>Director of Guidance and Placement</i>
ARTHUR DAVENPORT, B.A.	<i>Fraternity Business Manager and Director of Student Activities</i>
ROBERT FRANCIS MADGIC, B.A.	<i>Assistant to the Director of Admission on the Mayo-Smith Teaching Grant</i>
HORACE WILSON HEWLETT, M.A.	<i>Secretary of the College and Director of Publications</i>
PETER SCHRAG, B.A.	<i>Assistant Secretary of the College and Director of Publications</i>
SIDNEY RAYMOND PACKARD, PH.D., J.D.	<i>Four-College Coordinator</i>
JOHN CLEMENT SCHULER, MUS.D.	<i>Director of the Band</i>

† On leave second semester.

Faculty

CALVIN HASTINGS PLIMPTON, M.D., M.A., MED. SCI. D., LL.D.

President of the College

CHARLES SCOTT PORTER, M.A., L.H.D.

Dean of the College

EUGENE SMITH WILSON, B.A.

Dean of Admission

THEODORE SPAULDING BACON, JR., M.C.P.

Associate Dean

JOHN CUSHING ESTY, JR., M.A.

Associate Dean

WILLIAM MOORE DITTEL, PH.D.

Assistant Dean

CORTLAND VAN RENSSELAER HALSEY, PH.D.

Assistant Dean of Admission

ROBERT FREEMAN GROSE, PH.D.

Registrar

The Faculty Is Arranged Alphabetically in Rank

GEOFFROY ATKINSON, PH.D.

Professor of Romance Languages on the Eliza J. Clark Folger Foundation, Emeritus

GEORGE ROY ELLIOTT, PH.D., LITT.D.

Professor of English on the Henry C. Folger Foundation, Emeritus

STEWART LEE GARRISON, M.A.

Professor of Public Speaking, Emeritus

WARREN KIMBALL GREEN, PH.D.

Professor of Astronomy, Emeritus

MICHAEL JOSEPH KENNEDY *Associate Professor of Physical Education, Emeritus*

MANFORD VAUGHN KERN, M.A. *Associate Professor of the Classics, Emeritus*

STERLING POWER LAMPRECHT, PH.D., LITT.D.

Professor of Philosophy on the Emily C. Jordan Folger Foundation, Emeritus

OTTO MANTHEY-ZORN, PH.D.

Professor of German on the Emily C. Jordan Folger Foundation, Emeritus

ALLISON WILSON MARSH, M.ED.

Professor of Hygiene and Physical Education, Emeritus

HAROLD HENRY PLOUGH, PH.D.

Edward S. Harkness Professor of Biology, Emeritus

WILLIAM TINGLE ROWLAND, PH.D.

Professor of Latin, Emeritus

CHARLES HANSEN TOLL, PH.D. *Professor of Philosophy and Psychology, Emeritus*

RALPH COPLESTONE WILLIAMS, PH.D.

Professor of French, Emeritus

ROBERT FROST, L.H.D., LITT.D.

Simpson Lecturer in Literature

ARNOLD BORIS ARONS, PH.D.

Professor of Physics

JOHN WILLIAM ATHERTON, PH.D.

Visiting Professor of English

GEORGE WILLIAM BAIN, PH.D.

Samuel A. Hitchcock Professor of Mineralogy and Geology

THEODORE BAIRD, PH.D.

Samuel Williston Professor of English

*CESAR LOMBARDI BARBER, M.A.

Professor of English

RALPH ALONZO BEEBE, PH.D.

Massachusetts Professor of Chemistry

BRUCE BUZZELL BENSON, PH.D.

Professor of Physics

ROBERT HERMANN BREUSCH, PH.D.

Professor of Mathematics

BAILEY LEFEVRE BROWN, M.A.

Professor of Mathematics

STEPHEN BROWN, M.D. *College Physician and Parmly Billings Professor of Hygiene*

* On leave 1960-61.

*HENRY STEELE COMMAGER, PH.D.

Amherst College Professor of American History and American Studies

HASKELL ROBERT COPLIN, PH.D. *Professor of Psychology and Student Counselor*

*GEORGE ARMOUR CRAIG, PH.D. *Professor of English*

BENJAMIN HAILE DE MOTT, PH.D. *Professor of English*

PAUL WITHERSPOON ECKLEY, M.A. *Professor of Physical Education*

REGINALD FOSTER FRENCH, PH.D. *Professor of Romance Languages*

GEORGE BANKS FUNNELL, M.A. *Professor of French*

ALFRED FREEMAN HAVIGHURST, PH.D. *Professor of History*

GEORGE ROLFE HUMPHRIES, M.A. *Lecturer in English*

†GAIL KENNEDY, PH.D. *Professor of Philosophy on the Henry C. Folger Foundation*

GEORGE WALLACE KIDDER, PH.D., SC.D. *Stone Professor of Biology*

†THEODORE KOESTER, PH.D. *Professor of Psychology*

EARL LATHAM, PH.D. *Joseph B. Eastman Professor of Political Science*

MORRIS LAZEROWITZ, PH.D. *Visiting Professor of Philosophy*

KARL LOEWENSTEIN, D.C.L.

William Nelson Cromwell Professor of Jurisprudence and Political Science

‡ALBERT ERNEST LUMLEY, M.A. *Professor of Physical Education*

LEO MARX, PH.D. *Professor of English and American Studies*

NEWTON FELCH McKEON, B.A. *Professor of English and Director of Converse Memorial Library*

HENRY GEORGE MISHKIN, PH.D. *Professor of Music*

JOHN ANDREW MOORE, M.A. *Class of 1880 Professor of the Classics*

CHARLES HILL MORGAN, PH.D., L.H.D. *Professor of Fine Arts on William R. Mead Foundation*

VINCENT MORGAN, MUS.M. *Professor of Music*

JAMES RODNEY NELSON, PH.D. *Charles E. Merrill Professor of Economics*

ELLSWORTH ELLIOTT RICHARDSON, M.A. *Professor of Physical Education*

STANLEY CURTIS ROSS, B.A., LL.D. *Visiting Professor of Economics*

EDWIN CHARLES ROZWENG, PH.D. *Dwight W. Morrow Professor of American History*

†EDWARD DWIGHT SALMON, PH.D. *Winkley Professor of History*

ANTHONY SCENNA, PH.D. *Professor of German*

‡OSCAR EMILE SCHOTTÉ, SC.D. *Rufus Tyler Lincoln Professor of Biology*

THEODORE SOLLER, PH.D. *Professor of Physics*

ATHERTON HALL SPRAGUE, PH.D. *Professor of Mathematics*

GEORGE ROGERS TAYLOR, PH.D. *George D. Olds Professor of Economics*

†WILLARD LONG THORP, PH.D., LL.D.

Professor of Economics and Director of Merrill Center of Economics

FREDERICK KING TURGEON, PH.D. *Professor of French*

COLSTON ESTEY WARNE, PH.D. *Professor of Economics*

*ROBERT BYRON WHITNEY, PH.D. *George H. Corey Professor of Chemistry*

RICHARD EUGENE WILSON, M.ED. *Physical Education*

‡ALBERT ELMER WOOD, PH.D. *Professor of Biology*

* On leave 1960-61.

† On leave first semester.

‡ On leave second semester.

- WOLFGANG YOURGRAU, PH.D. *Visiting Professor of Philosophy of Science*
 BENJAMIN MUNN ZIEGLER, LL.B., PH.D. *Bertrand Snell Professor of Political Science*
 ROBERT CHARLES BIRNEY, PH.D. *Associate Professor of Psychology*
 WALTER LEROY BOUGHTON, M.F.A. *Stanley King Associate Professor of Dramatics
and Director of Kirby Theater*
 O. DONALD CHRISMAN, M.D. *Associate College Physician*
 ARNOLD PETER COLLERY, PH.D. *Associate Professor of Economics*
 RICHARD MATEER DOUGLAS, PH.D. *Associate Professor of History*
 HENRY FREDERICK DUNBAR, JR., PH.D. *Associate Professor of Physical Education*
 JOSEPH EPSTEIN, PH.D. *Associate Professor of Philosophy*
 THOMAS FAUSS GOULD, PH.D. *Associate Professor of the Classics*
 *THEODORE PHINNEY GREENE, M.A. *Associate Professor of History*
 ROBERT FREEMAN GROSE, PH.D. *Associate Professor of Psychology and Registrar*
 JOHN BURT HALSTED, PH.D. *Associate Professor of History*
 WILLIAM MICHAEL HEXTER, PH.D. *Associate Professor of Biology*
 †ERNEST ALFRED JOHNSON, PH.D. *Associate Professor of Romance Languages*
 WILLIAM ELMER KENNICK, PH.D. *Associate Professor of Philosophy*
 ALBERT PAUL LINNELL, PH.D. *Associate Professor of Astronomy*
 BENJAMIN FRANKLIN MCCABE, M.A. *Associate Professor of Physical Education*
 RALPH CLELAND MCGOUN, M.A. *Associate Professor of Dramatic Arts*
 F. BRUCE MORGAN, PH.D. *Associate Professor of Religion*
 JAMES ELMORE OSTENDARP, M.A. *Associate Professor of Physical Education*
 MURRAY BISBEE PEPPARD, PH.D. *Associate Professor of German*
 CHARLES ENSIGN ROGERS, M.A. *Associate Professor of Fine Arts and Dramatic Arts*
 ROBERT HORTON ROMER, PH.D. *Associate Professor of Physics*
 STEVEN MARTIN ROSTAS, M.E.D. *Associate Professor of Physical Education*
 DUDLEY HERBERT TOWNE, PH.D. *Associate Professor of Physics*
 FRANK ANDERSON TRAPP, PH.D. *Associate Professor of Fine Arts*
 ALFRED BURTON WILLCOX, PH.D. *Associate Professor of Mathematics*
 KENNETH MYRON YOSS, PH.D. *Visiting Professor of Mathematics*
 HENRY THOMAS YOST, JR., PH.D. *Associate Professor of Biology*
 THEODORE SPAULDING BACON, JR., M.C.P. *Assistant Professor of Political Science and Associate Dean*
 GERALD PATRICK BROPHY, PH.D. *Assistant Professor of Geology*
 LINCOLN PIERSON BROWER, PH.D. *Assistant Professor of Biology*
 WILLIAM CALVIN CANNON, PH.D. *Assistant Professor of Spanish*
 *OTIS GARY, M.A. *Assistant Professor on leave for service at Doshisha University*
 JAMES BUCKLEY CROWLEY, PH.D. *Assistant Professor of History*
 WILLIAM HUMISTON DARR, B.A. *Assistant Professor of Fine Arts*
 JOHN WARNER DAVENPORT, PH.D. *Assistant Professor of Psychology*

* On leave 1960-61.

† On leave first semester.

‡ On leave second semester.

COLBY WILSON DEMPSEY, PH.D.	<i>Assistant Professor of Physics</i>
WILLIAM MOORE DIETEL, PH.D.	<i>Assistant Professor of Humanities and Assistant Dean</i>
JOHN CUSHING ESTY, JR., M.A.	<i>Lecturer in Mathematics and Associate Dean</i>
ELMO GIORDANETTI, PH.D.	<i>Assistant Professor of Romance Languages</i>
JOEL ETHAN GORDON, PH.D.	<i>Assistant Professor of Physics</i>
CORTLAND VAN RENSSELAER HALSEY, PH.D.	<i>Assistant Professor in American Studies and Assistant Dean of Admission</i>
HUGH DODGE HAWKINS, PH.D.	<i>Assistant Professor of American Studies</i>
WILLIAM WEBSTER HEATH, PH.D.	<i>Assistant Professor of English</i>
ROBERT HOWARD, PH.D.	<i>Visiting Assistant Professor of Astronomy</i>
GEORGE ANTHONY KATEB, PH.D.	<i>Assistant Professor of Political Science</i>
JOHN HOWARD KESSEL, PH.D.	<i>Assistant Professor of Political Science</i>
DAVID SHEPHERD KING, S.T.M.	<i>Chaplain</i>
ROBERT HARRY KOCH, PH.D.	<i>Assistant Professor of Astronomy</i>
ALLEN KROPF, PH.D.	<i>Assistant Professor of Chemistry</i>
HAROLD GEORGE LOOMIS, PH.D.	<i>Assistant Professor of Mathematics</i>
DONALD GRANT MILLER, M.ED.	<i>Assistant Professor of Physical Education</i>
EGON NEUBERGER, PH.D.	<i>Assistant Professor of Economics</i>
EDWARD OLSON, B.S.	<i>Visiting Assistant Professor of Astronomy</i>
DANIEL ORR, PH.D.	<i>Assistant Professor of Economics</i>
JOHN PEMBERTON, III, PH.D.	<i>Assistant Professor of Religion</i>
ANTHONY RESO, PH.D.	<i>Assistant Professor of Geology</i>
CARTER CURTIS REVAR, PH.D.	<i>Assistant Professor of English</i>
ROGER HILLER SALE, PH.D.	<i>Assistant Professor of English</i>
EDWARD JOSEPH SERUES, B.S.	<i>Assistant Professor of Physical Education</i>
PAUL HAROLD SETON, M.D.	<i>Assistant College Physician</i>
MARC STAMM SILVER, PH.D.	<i>Assistant Professor of Chemistry</i>
DONALD OWEN WHITE, M.A.	<i>Assistant Professor of German</i>
JAMES HEYWOOD ALEXANDER, M.A.	<i>Instructor in Music</i>
RONALD ROYCE ALLEN, PH.D.	<i>Instructor in Public Speaking</i>
S. ROGER ALLING, JR., M.A.	<i>Assistant Chaplain</i>
JAMES JOHN BARNES, PH.D.	<i>Instructor in History</i>
JOHN ARTHUR CAMERON, M.A.	<i>Instructor in English</i>
WILLIAM ELIOT COLES, JR., M.A.	<i>Instructor in English</i>
ALAN DAVIS, B.A.	<i>Instructor in Russian</i>
EDWIN FRANCIS DOLIN, JR., M.A.	<i>Instructor in the Classics</i>
JOHN GARVER GAGLIARDO, M.A.	<i>Instructor in History</i>
ALLEN GUTTMANN, B.A.	<i>Instructor in English</i>
HERBERT JOSEPHS, M.A.	<i>Instructor in French</i>
ARNOLD MARTINIUS KENSETH, M.A., S.T.B.	<i>Instructor in American Studies and English</i>
COOPER HAROLD LANGFORD, 3RD, PH.D.	<i>Instructor in Chemistry</i>

EDWARD RENTON LEADBETTER, PH.D.	<i>Instructor in Biology</i>
EDGAR LITT, PH.D.	<i>Instructor in Political Science</i>
PETER KENNETH MARSHALL, B.A.	<i>Instructor in Classics</i>
JOHN ANTHONY PETROPULOS, B.A.	<i>Instructor in History</i>
WILLIAM HARRISON PRITCHARD, PH.D.	<i>Instructor in English</i>
RICHARD LAWRENCE RAPSON, B.A.	<i>Instructor in American Studies</i>
LORENZO WILLARD RICHARDS, PH.D.	<i>Instructor in Chemistry</i>
BURTON RUBIN, M.A.	<i>Instructor in Russian</i>
DWIGHT MORROW SCANDRETT, JR., M.S.	<i>Instructor in Physical Education</i>
PETER SCHRAG, B.A.	<i>Instructor in American Studies</i>
RICHARD G. VAN PETERSILGE	<i>Instructor in Physical Education</i>

Associate

PHILIP TRUMAN IVES, PH.D.	<i>Research Associate in Biology</i>
---------------------------	--------------------------------------

Assistants

KATE D. BREUSCH	<i>German</i>
ALDA B. CANNON	<i>Romance Languages</i>
MARIA-JESUS ECHEVARRÍA	<i>Spanish</i>
ROBERT VAIL HUSS	<i>Physics</i>
VALVERIAN F. KOLESOFF	<i>Russian</i>
JERALD LEE ROBERTSON	<i>Physics</i>
EDWARD TRAPP	<i>Physics</i>

Faculty Committees

Committee of Six: President PLIMPTON (Chairman, *ex officio*), Dean PORTER (Secretary, *ex officio*), Professors ARONS, BIRNEY, FUNNELL, KOESTER, MARX, and TAYLOR.

Committee on Educational Policy: Professors FRENCH, KENNICK, ROZWENG, WILLCOX, and YOST.

Fellowship Committee: President PLIMPTON (Chairman), Dean PORTER (Secretary), Professors BAIRD, BEEBE, TRAPP, and ZIEGLER.

Committee on Admission and Scholarships: President PLIMPTON (Chairman), Dean WILSON (Secretary), Dean BACON, Dean DIETEL, Dean ESTY, Dean HALSEY, Dean PORTER, and Professors ARONS and GROSE.

Committee on Intercollegiate Athletics: President PLIMPTON (Chairman), Dean PORTER (Secretary), Professors ECKLEY, LUMLEY, RICHARDSON, SPRAGUE, WILSON, Doctor BROWN, and JOHN S. PARKS, '61, President of the Student Council.

Lecture Committee: Professors YOST (Chairman), COLLERY and GOULD.

Library Committee: Professors McKEON (Chairman), BAIRD, BENSON, BROPHY, HALSTED, SCENNA, and TAYLOR.

Fellows

- RALPH STUART BLUME, '60 Columbia University
John Woodruff Simpson Fellow in Medicine
- ROBERT SAVAGE BROWN, '60 University of Minnesota
John Woodruff Simpson Fellow in Medicine
- THOMAS PATTERSON BROWN, '60 University College, London University
Amherst Memorial Fellow in Philosophy
- LEON JOSEPH DUBOIS, '60 Eastman School of Music
Edward Poole Lay Fellow in Music
- ROY GERALD FITZGERALD, III, '60 Western Reserve University School of Medicine
John Woodruff Simpson Fellow in Medicine
- JAMES WILLIAM FORGIE, JR., '60 University of California, Berkeley
Amherst Memorial Fellow in Philosophy
- DAVID SCOTT FOSTER, '60 Harvard University
John Woodruff Simpson Fellow in Law
- JOHN RANDALL GILLIS, '60 Stanford University
Amherst Memorial Fellow in History
(In prep. for teaching at the secondary school level)
- MALCOLM GRAHAM GREENAWAY, JR., '60 Cornell University
The Forris Jewett Moore Fellow in Philosophy
- RICHARD FRANK HUBERT, '60 International Graduate School at University of Stockholm, Sweden
Amherst Memorial Fellow in International Politics
- NEWTON LAURENCE JASSIE, '60 N. Y. University College of Medicine
John Woodruff Simpson Fellow in Medicine
- HUGH HEATH KNAPP, '60 Yale Divinity School
John Woodruff Simpson Fellow in Theology
- STEWART LEIBOWITZ, '60 Johns Hopkins University
John Woodruff Simpson Fellow in Medicine
- JOHN WILLIAM MCKENNA, '60 Columbia University
Amherst Memorial Fellow in History (also The Henry P. Field Fellow in History)
- RONALD NEWELL MIDDLETON, '60 Harvard University
Amherst Memorial Fellow in English
(In prep. for teaching at the secondary school level)
- ROBERT LEE NEILL, JR., '60 Harvard University
John Woodruff Simpson Fellow in English in prep. for secondary school teaching
- MALCOLM FOERTNER NICOL, '60 University of California, Berkeley
The Forris Jewett Moore Fellow in Chemistry
- WARREN OLNEY, IV, '59 Cornell University
The James Ingram Merrill Fellow in English Literature

Amherst College Library

NEWTON FELCH McKEON, JR., B.A.

Director

EBENEZER PORTER DICKINSON

Reference Librarian

RUTH MARIE ERIT, B.A.

Order Librarian

GLADYS JONES MACK, B.A., B.L.S.

Head of Circulation

CYNTHIA FURNEAUX TUCKER, B.S.

Chief Cataloguer

FLOYD SAMUEL MERRITT, M.A.

Assistant Reference Librarian

ADELE HERMAN STEINBERG, B.S., M.L.S.

Assistant Cataloguer

EUGENIA OSBORN YEUELL, B.S., M.A.

Assistant Cataloguer

The Pratt Museum of Geology

GEORGE WILLIAM BAIN, PH.D.

Curator

ALBERT ELMER WOOD, PH.D.

Associate Curator

GERALD PATRICK BROPHY, PH.D.

Associate Curator

ANTHONY RESO, PH.D.

Associate Curator

Snell Museum of Physics

THEODORE SOLLER, PH.D.

Director

Edward Hitchcock Memorial Room

RENA MARY DURKAN

Curator

MANFORD VAUGHN KERN, M.A.

Associate Curator

Amherst College Wildlife Sanctuary

WALTER CHARLES MARKERT, B.S.

Director

Mead Art Building

CHARLES HILL MORGAN, PH.D.

Director

CHARLES ENSIGN ROGERS, M.A.

Assistant Director

MARGARET CECILIA TOOLE, B.A.

Assistant Curator of Painting

ADVISORY COMMITTEE ON ACQUISITIONS

LOUISA DRESSER, B.A.

Worcester, Mass.

Curator, Worcester Art Museum

ARTHUR WILLIAM HEINTZELMAN

Marblehead, Mass.

Curator of Prints, Boston Public Library

ROBERT G. MCINTYRE	<i>Dorset, Vermont</i>
<i>Retired Diector, MacBeth Gallery, New York</i>	
CHARLES HILL MORGAN, PH.D., L.H.D.	<i>Amherst, Mass.</i>
<i>Professor of Fine Arts on the William R. Mead Foundation</i>	
DANIEL COTTON RICH, PH.D.	<i>Worcester, Mass.</i>
<i>Director, Worcester Art Museum</i>	
CHARLES HENRY SAWYER, L.H.D.	<i>Ann Arbor, Michigan</i>
<i>Professor of Fine Arts, University of Michigan</i>	
JAMES KELLUM SMITH, L.H.D.	<i>New York, N. Y.</i>
<i>President of the American Academy in Rome</i>	
CALVIN HASTINGS PLIMPTON, M.D., LL.D.	<i>Amherst, Mass.</i>
<i>President of the College, ex officio</i>	

Kirby Memorial Theater

WALTER LEROY BOUGHTON, M.F.A.	<i>Director</i>
CHARLES ENSIGN ROGERS, M.A.	<i>Designer</i>
RALPH CLELAND MCGOUN, JR., M.A.	<i>Technical Director</i>

Advisor on Charitable Fund Awards

FRANK LEAROYD BOYDEN, SC.D., PH.D., LITT.D., L.H.D., LL.D.	<i>Deerfield, Mass.</i>
--	-------------------------

Religious Advisers

REV. THAYER A. GREENE, B.D.	<i>Advisor on Religious Activities</i>
REV. DAVID J. POWER	<i>Religious Advisor to Catholic Students</i>
RABBI LOUIS RUCHAMES, PH.D.	<i>Religious Advisor to Jewish Students</i>

Amherst College

The "Collegiate Charitable Institution" at Amherst, which eventually became Amherst College, was opened in September 1821 as a seminary where students with little money might prepare for the ministry. It secured its charter from the Commonwealth of Massachusetts in 1825. Although the nominal founders were men like Noah Webster, Samuel F. Dickinson (grandfather of the poet Emily), and other trustees of the local academy, the College was made possible through the help of more than thirteen hundred citizens of the township and countryside. These people not only gave money for students' tuition (in donations ranging from \$3000 to 3 cents); they helped dig the foundations and lay the bricks for the College's first buildings. It is therefore fitting that Amherst is named not for an individual but for the town.

For nearly a century and a half the College has continued to instruct its students in "all branches of literature and science" as promised in its original constitution. It is non-sectarian and its courses are confined to the liberal arts and sciences and lead only to the bachelor of arts degree; no vocational studies are offered. The majority of its classes are small (the present proportion of teachers to students is one to nine), and offer relatively individualized instruction. But the College has extended its original design — to provide education for the sons of the farmers of the Connecticut Valley — and is now a national rather than a local institution. About thirty percent of its undergraduates come from New England; forty percent from the Middle Atlantic States; twenty percent from the Middle West; and the rest from a scattering of other states and nations.

The College's corporate name is "The Trustees of Amherst College." Its general government is vested in this Board, eighteen in number, of whom the President and the Treasurer of the College are members *ex officio*, ten are elected by Trustee vote without limit of term, and six are elected by graduates of the College for terms of six years each. The President is charged with the general administration of the College. Subject to the Trustees' reserved authority, educational policy and rules of conduct are determined by the Faculty. The following is a list of the Presidents of the College, with their terms of service:

REV. ZEPHANIAH SWIFT MOORE, D.D.	1821-1823
REV. HEMAN HUMPHREY, D.D.	1823-1845
REV. EDWARD HITCHCOCK, D.D., LL.D.	1845-1854
REV. WILLIAM AUGUSTUS STEARNS, D.D., LL.D.	1854-1876
REV. JULIUS HAWLEY SEELYE, D.D., LL.D.	1876-1890
MERRILL EDWARDS GATES, PH.D., LL.D., L.H.D.	1890-1899
REV. GEORGE HARRIS, D.D., LL.D.	1899-1912

ALEXANDER MEIKLEJOHN, PH.D., LL.D.	1912-1924
GEORGE DANIEL OLDS, LL.D.	1924-1927
ARTHUR STANLEY PEASE, PH.D., LL.D.	1927-1932
STANLEY KING, LL.D.	1932-1946
CHARLES WOOLSEY COLE, PH.D., L.H.D., SC.D., LITT.D., LL.D.	1946-1960
CALVIN HASTINGS PLIMPTON, M.D., M.A., MED. SCI.D. LL.D. . . .	1960-

The Curriculum

The curriculum of the College, key features of which were first introduced in 1947, was designed to put more emphasis on participation by the student, and to provide a body of common knowledge that would serve as a basis for later specialization in any field. Under its terms all students during the freshman-sophomore years take three two-year sequences, one in each of the three divisions — the humanities, social studies, and the natural sciences. In the first year the student takes Science 1-2, mathematics and physics, a course in which the two subjects are integrated, so far as is possible, by applying the mathematics, as it is learned, to physical problems. As a sophomore the student takes either a semester of chemistry and one of biology which builds upon the foundation of this first year, or two semester courses from the fields of astronomy, biology, chemistry, evolution, geology, or psychology. In social studies the student begins by taking a course in European Civilization followed in the second year by one in Problems of American Civilization. The humanities requirement for the freshman year is two independent half-courses carried in parallel throughout the year, one in English Composition, the other in "great books," a selection from classic works read in chronological order. The humanities requirement for sophomores is a year's work from a designated group of courses in English or other literatures, music, fine arts, dramatic arts, classical civilization, religion, and philosophy. The student must have, in addition, a satisfactory grounding either in an ancient or an important modern language. Thus, during the first two years the student is prepared to major, as an upper-classman, in *any* subject within the curriculum, though normally he will do so in but one.

Upon completing this program, all students then take a major, either in one subject or a "group major" which combines work in two or more departments — for example, the major in American Studies. The Major Fields are the following: *The Humanities* — Classics, Dramatic Arts, English, Fine Arts, French, German, Greek, Italian, Latin, Music, Philosophy, Religion, Spanish; *Social Studies* — American Studies, Economics, History, Legal Studies, Political Science; *Mathematics and Natural Sciences* — Astronomy, Biology, Chemistry, Geology, Mathematics, Physics, and Psychology. Nearly all students ranking in the upper half of the class take a major with honors. Some of the larger departments have special seminars

for this group in the junior year, and all departments have a senior honors course. Every department requires a thesis (or the equivalent) involving independent research under the supervision of a teacher in that subject. All seniors are required to take written comprehensive examinations in the field of their major.

The curriculum is based on the view that an important goal of liberal education is to develop the student's power of using abstractions in a way that will enable him to deal with a great diversity of experience. A Policy Committee of the College has described the relation between the curriculum and the contemporary world as follows: "It has become more important than ever before that individuals be able to comprehend intelligently as much of the enormously complex and rapidly changing society in which we live as it is possible for them to do. . . . Between the education of infancy and childhood, which should be primarily a matter of acquiring essential skills by direct participation, and the subsequent training that one receives by the direct method of apprenticeship in technical and professional schools, there lies a period of late adolescence and early maturity when at least the ablest and most gifted members of their generation should be given the opportunity to develop the kind and quality of interests that will enable them to understand how their specific functions as businessmen, teachers, artists, lawyers, physicians, engineers, etc., fit into the whole complex changing pattern of the Great Society."

For detailed statements concerning degree requirements and major plans, see below, pp. 42-46.

Plant and Facilities

Amherst is an independent, gift-supported college. Approximately 1000 students are now enrolled; the faculty has nearly one hundred and thirty members; college property consists of four hundred and five acres; buildings — exclusive of college-owned faculty residences and independently owned fraternities — number forty-two; endowment exceeds \$24,000,000. The College buildings include the chapel, auditorium, library, dormitories, classrooms, laboratories, natural history museum, art center, observatory, central dining hall, physical education units, theater, infirmary, music building, religion building, and maintenance group. The Board of Trustees also administers the Folger Shakespeare Memorial Library in Washington, D. C. and the Merrill Center for Economics at Southampton, Long Island.

Though only a few examples can be cited here, facilities and equipment are at a high level of adequacy throughout the College. The Kirby Theater is acknowledged to be one of the finest college theaters in the country. Besides the main Amherst College Library, with 300,000 volumes, there are small libraries in each dormitory unit, in most of the fraternity houses,

and in the Infirmary. The Infirmary, of recent construction, is directed by the College Physician, who has a consulting medical staff comprising surgeons, internists, and various specialists to call on in cases of serious illness. The athletic plant consists of a large gymnasium with doctors' offices and treatment room, special sports rooms for wrestling, boxing, and fencing, and wings that house an indoor athletic field, a swimming pool, and squash courts. For outdoor activities there are four football, four soccer, and four baseball fields, a track, twenty-five tennis courts, an artificial ice rink for skating and hockey, and practice ski slopes on campus.

The science laboratories accommodate large numbers and provide generous space for advanced students working on research projects. In the Chemistry Building there are five laboratories for the more elementary courses and two set aside for honors students. The Department of Biology has a number of laboratories devoted to undergraduate courses, including those for anthropology, genetics, and botany, and a new greenhouse for the study of plant growth. An underground vault containing radioactive cobalt supplied by the Atomic Energy Commission enables qualified biologists to conduct experiments in radiation research. Geology has four laboratories, with certain ones, such as the paleontological laboratory, intended primarily for advanced work. Physics has six laboratories, among them special facilities for optics, electronics, and low-temperature research. The College also has laboratories in Experimental Psychology. The well-equipped astronomical observatory has two main telescopes: an 18-inch visual refractor and an 8-inch refractor with a camera. The instruments in the observatory, like the equipment in the laboratories, can be used by undergraduates engaged in special projects.

There are a number of outstanding collections — ranging in subject from historical geology to American art — in the museums and galleries of the College. The Department of Fine Arts has about five hundred color reproductions and original prints that any student may borrow for use in his room. The Department of Music has the Carnegie Record Collection, a circulating library of some 5,000 records which students may take out or play in the listening room of the music building. The College provides audio equipment for the oral study of poetry in English and other languages in general. And a variety of other special facilities are available to the student in virtually every academic and extracurricular field.

Student Life

Amherst freshmen live on campus in any one of three dormitories, two of which were built in 1946. Upperclassmen live in four other dormitories and in the fraternity houses. All students take their meals in Valentine Hall, the commons or central eating place of the College. A high percentage of Amherst upperclassmen join one of the thirteen fraternities.

Since 1951 all eligible students who have wished to participate have been pledged to fraternities. A student becomes eligible for membership in a fraternity in his sophomore year. Each group has its own house, with well furnished common rooms and comfortable living quarters where the majority of the members live during their last two or three years in college. While these social organizations are in the main run by their undergraduate members, their activities are also guided by a House Management Committee made up of a student and an alumnus from each group. Each house also has its own faculty adviser.

There are organized student activities of every sort: student government, honorary societies, newspapers and magazines, radio, sports, dramatics, musical organizations, and clubs. Among the most notable are the following:

Sports — Every freshman and sophomore takes part in a program aimed to improve his fitness and to give him an opportunity to play in a team sport and learn a recreational game. And all students are taught swimming and a game such as tennis or golf that they may continue to enjoy after leaving college. A very large number of students play on an intercollegiate or intramural team. Nearly fifty percent participate in intercollegiate contests at some time during their course, and in the junior and senior years, after the required program is completed, more than ninety percent take part in some form of varsity or intramural sports.

Publications — The College has a newspaper, *The Amherst Student*, founded in 1868 and published by an undergraduate board of editors and managers, a senior yearbook, the *Olio*, which first appeared in 1855 and gives a record of college life and individual student careers, and a literary magazine.

Radio — Radio Station WAMF has three studios, a music library of 5,500 records, and a staff of a hundred students. Varied programs are broadcast on an FM signal throughout the college year.

Dramatics — Dramatics is open to all students except first-term freshmen. Students build, light, and paint sets, and act in productions supervised by the Department of Dramatics. All types of plays are given, and several original plays written by undergraduates are presented each year for course credit in dramatic arts.

Music — Each year the Glee Club gives concerts in Amherst and in other towns and cities. It also performs major choral works in joint concert with women's organizations from nearby colleges, in recent years with symphony orchestras. The Smith-Amherst orchestra, which rehearses at Smith College, is open to all qualified undergraduates. There is a College Band, which gives concerts in Amherst and other communities, and the Chapel Choir sings at daily chapel and for all academic convocations.

Concerts and Lectures — In recent years the College has presented as lecturers and visitors such people as: Julian Huxley, Robert Frost, Thomas Mann, Paul Hoffman, Madame Pandit, Joyce Cary, Elizabeth Bowen, Aaron Copland, William O. Douglas, and Chester Bowles. The Music Department presents each year three or four concerts of professionals, and informal concerts are given by faculty members or students of Amherst and Smith. The College brings to Kirby Theater professional groups of players or dancers for occasional performances. There are various film series, some sponsored by the modern language departments. Opportunities to hear lectures and music, to see plays and foreign films are increased many times through the generosity of the other colleges in the community. All three of the nearby colleges offer lectures, concerts, art exhibitions, and theatrical performances that are open to the public. Worthy of special mention are the concert series of Smith, Mount Holyoke, and the University of Massachusetts, at which some of the leading orchestras and soloists can be heard every year.

Religious Associations — The Christian Association is organized and managed by undergraduates. It seeks to give form and focus to the religious interests of the students, to develop a program of religious discussion and work in the College, and to sponsor charities and social work. It also maintains a "Little Chapel" that is always open for prayer and meditation and where students conduct weekly services throughout the year. Amherst undergraduates are welcomed at the Sunday services of all the local churches and can participate in such activities as choirs and young people's groups. The undergraduates also organize and participate in special services at the College, such as a candlelight musical service at the Christmas season.

The College Staff includes a Chaplain and an Assistant Chaplain. Both are connected with local churches, but devote approximately half their time to the interests of the college students. They assist in the conduct of the chapel services, act as chaplains in offering religious counsel and guidance to the students, lead discussion groups, and assist the Christian Association in developing religious work of various types among the undergraduate body.

The College also has religious advisors to Catholic and Jewish students.

After Graduation

The College offers an occupational guidance program that enables students to discover their special interests, aptitudes, talents, and powers, to become familiar with the best techniques of obtaining a desirable job, and to recognize the principal adjustments needed in changing from life on the campus to one in the business and professional world. In the first semester of freshman year each student is given a booklet outlining a four-

year program of investigation for those uncertain about their occupational future. As a further aid to graduating students seeking work, the alumni organization assists seniors by arranging interviews with visiting representatives of business and industrial firms and by sponsoring a Career Conference at the College during the winter.

A student counselor who is a member of the faculty is also available for career guidance. Other faculty members assist in the program.

About 80 percent of every senior class goes on to some sort of graduate school, and the majority of living graduates are quite evenly divided between business and the various professions. The business group includes men in firms of every description. In the professions there are large numbers of lawyers, doctors, educators, and clergymen, with sizeable quotas of public servants, engineers, editors and writers, and scientists. There are also farmers, architects, and artists, and men in radio, television, and aviation. Graduates of considerable reputation are found among clergymen, college presidents and scholars, business executives and statesmen. In government there have been a number of Amherst men in important positions — a President of the United States, a Chief Justice of the Supreme Court, three Speakers of the House of Representatives, Ambassadors to foreign states, a President of the International Bank, a United States High Commissioner for Germany. Studies of College graduates who have become members of the National Academy of Arts and Sciences and of those listed in *Who's Who* show a consistently high percentage of Amherst alumni represented.

FOUR COLLEGE COOPERATION

Amherst, Mount Holyoke and Smith Colleges and the University of Massachusetts have combined their activities in certain areas to extend and enrich their educational resources and have worked out procedures for such cooperation. Any student in any of the four institutions may take courses for credit in any of the other three if he has the qualifications. (See page 47). Catalogues of courses at the other institutions are at the loan desk of each library and in the offices of department chairmen.

The oldest cooperative venture is the Hampshire Inter-Library Center (HILC) located now in the Goodell Library at the University. HILC, a separate legal entity, is a depository for research materials and learned journals which are beyond the reach of any of the four libraries operating independently. An FM radio station (WFCR, 88.5 mc.) is run cooperatively through the Western Massachusetts Broadcasting Council composed of representatives of the four institutions. Other cooperative activities include a joint Astronomy Department; courses in the History of Science and in Non-Western studies; a Ph.D. program; a Film Center; a common calendar of events; a committee on transportation and a Coordinator for cooperative projects.

The Folger Shakespeare Library

By the will of the late Henry Clay Folger of the Class of 1879, there was bequeathed to the Trustees of Amherst College the Folger Shakespeare Library in Washington, D. C., together with an endowment for maintenance, later increased by the generosity of Mrs. Folger.

The building, located on East Capitol Street directly east of the Library of Congress, was erected at a cost of more than \$2,000,000. Its endowment now stands at about \$10,000,000, and its collections are valued at about \$3,200,000. On the Library's main floor are: an Exhibition Gallery with displays of rare books, manuscripts, paintings, and miscellaneous curios and works of art; an Auditorium in the form of a reproduction of the interior of an Elizabethan playhouse; a large Reading Room, representing a Tudor Banqueting Hall and hung with early tapestries; four Vaults, containing the rarest portions of the collections; a Reception Room for social purposes; and Administration Offices. On the second floor are the working rooms of the Library's Accessions Department, the Catalogue Department, and offices for members of the staff. A Photographic Department is in the basement. Reading machines for microfilm are found in the stacks.

The Library concentrated its original collection largely upon the life, writings, and influence of William Shakespeare, but during the past two decades it has increased its rare books and manuscripts in related fields until today it has one of the largest collections in the world for the study of British history of the sixteenth and seventeenth centuries. Only the British Museum has a larger collection of early English books.

Under the plan of the Trustees of the College, in addition to maintaining its traditional interest in Shakespeare and English Renaissance literature, the Library is exploiting other fields as well. Efforts are made to expand it as an efficient laboratory of research and investigation. Aid and encouragement are given literary and historical scholars capable of making the most significant use of the Library's great collection of source materials. The Library has also developed reference collections which scholars require for the efficient utilization of rare books and manuscripts.

Research facilities of the Library are not open to casual visitors, but permission to use them may be obtained by qualified scholars upon application to the Director. Interested individuals and groups are cordially invited to visit the FOLGER's public rooms.

FOLGER LIBRARY OFFICERS

LOUIS BOOKER WRIGHT, PH.D., LITT.D., L.H.D., LL.D.	<i>Director</i>
JAMES GILMER McMANAWAY, PH.D.	<i>Consultant in Literature and Bibliography</i>
GILES EDWIN DAWSON, PH.D.	<i>Curator of Books and Manuscripts</i>
PHILIP A. KNACHEL, M.S.L.S., PH.D.	<i>Chief of Technical Services</i>

ELEANOR PITCHER
VIRGINIA A. LAMAR
LILLY C. STONE A.B.
DOROTHY E. MASON A.B., M.A.
ELAINE FOWLER A.B.

Assistant to the Director
Executive Secretary
Chief Cataloguer
Reference Librarian
Reading Room Supervisor

The Merrill Center for Economics

The Merrill Center for Economics is located at The Orchard, Southampton, New York. The Orchard was presented to Amherst College in 1951 by Charles E. Merrill, an alumnus of the Class of 1908. Each summer, the Center brings together several groups of experts in the field of economics to discuss some important economic problem. They live together at The Orchard and meet regularly around a conference table and, in addition, have less formal discussions in smaller groups. Attendance is by invitation only, and the conferees are drawn from education, business, and government, both from this country and abroad. Additional speakers are invited to discuss particular problems with the group.

The Orchard consists of a beautiful, spacious house and several additional buildings on its sixteen acres. The main house is particularly noted for its paneled music-room and main staircase. Together with the Annex, it can comfortably house about thirty persons. The houses are surrounded by extensive lawns and formal gardens. The library contains current economic periodicals and is supplemented each summer as necessary with books from the Amherst College Library.

The Merrill Center is administered by the Trustees of Amherst College. Dr. Willard L. Thorp, an alumnus of Amherst in the Class of 1920 and former Assistant Secretary of State for Economic Affairs, is director of the Center. Dr. Thorp is also Professor of Economics on the Amherst faculty.

Doshisha University

Doshisha University in Kyoto, Japan, was founded by Joseph Hardy Neesima, '70, the first Japanese to graduate from a western college or university. Amherst has maintained a continuing and close relationship with Doshisha. More than 20 Amherst graduates have taught there and since 1922 Amherst has maintained a resident instructor at the Japanese University. Amherst House, a New England Georgian style residence was built on the Doshisha campus as a memorial to Neesima. It serves as the residence of the Amherst representative, houses some twenty Doshisha students and serves as a center for cultural exchange between students and faculty from East and West.

I

Admission, Regulations, Fees, Scholarships and Degree Requirements

Admission

GENERAL STATEMENT

Admission to Amherst College is competitive. The College attempts to select for admission those applicants who seem best qualified to benefit from the opportunities offered by an Amherst education. The Committee on Admission, in judging the qualifications of applicants, pays particular attention to (1) academic performance in high school or independent school, (2) results of the College Entrance Examination Board Scholastic Aptitude and Achievement Tests, (3) the recommendation of the high school principal or headmaster, (4) evidence of industry and resolution, (5) the character, health, and extracurricular interests and achievements of the applicant. All freshmen admitted are candidates for the Bachelor of Arts degree.

HOW AND WHEN TO APPLY FOR ADMISSION

Correspondence regarding admission to the freshman class should be addressed to the Dean of Admission, Amherst College, Amherst, Massachusetts. Each applicant for admission to the freshman class must file a formal application with the Dean of Admission, preferably before March 1 of the year in which he expects to be admitted. Under certain circumstances, later applications will be considered. The formal application should be accompanied by a check or money order for \$10.00 made payable to *The Trustees of Amherst College*. This application fee will not be refunded if the student withdraws his application or if his application is not acted upon favorably.

A preliminary application may be filed at any time prior to the applicant's senior year. Once this preliminary application has been filed and acknowledged, the College assumes the responsibility of forwarding all formal application forms at the proper time. No priority is given to early applications.

Entering students are admitted only at the beginning of the regular college year in September.

Scholarship applicants should refer to pages 29-31.

INTERVIEW HOURS—ADMISSION OFFICE

The Admission Office is open on weekdays from 8:30 a.m. until 12:00 noon and 1:30 p.m. until 4:00 p.m. and on Saturdays from 8:30 a.m. until 12:00 noon, but through the summer months and until Labor Day, the Admission Office (and all administrative offices) will be closed on Satur-

days. Where possible, applicants for admission are advised to visit the College and discuss their educational plans with an Admission Officer. Interviews are not required, however. *It is advisable to write for an appointment with an admission officer if you plan to visit the College.*

RECOMMENDED PREPARATION

The following minimum program of studies is recommended for students planning to enter Amherst College:

English	4 years
Mathematics	3 years
Foreign Language	2 years (3 or 4 years of one preferred)
History	1 year
Laboratory Science	1 year

It should be noted that the College stresses sound preparation in certain subjects which are important implements for the many branches of college work. English, mathematics (intermediate mathematics, emphasizing basic algebraic, geometric, and trigonometric concepts and deductive reasoning), and foreign language (ancient or modern or both) are the subjects in which entering students should show proficiency.

For graduation Amherst College requires competence (oral and written) in a foreign language, ancient or modern. For definition of competence see page 44. The phrase satisfactory score means 575 in the C.E.E.B. Achievement tests.

In selecting a new class, some preference is given to candidates who present the following programs in foreign language in the following order:

First preference—four years of one language;

Second preference—three years of one language;

Third preference—two years each of two languages.

Candidates who apply from secondary schools which offer little or no language instruction will be judged by their other intellectual aptitudes and achievements and their readiness for the Amherst curriculum. Amherst College recommends, where possible, that a student continue to study the language he begins in secondary school through completion of the college requirement.

Students with particular interests may wish to modify the suggested program by taking more work in certain subjects and less in others. Such modification is wholly acceptable, provided there is evidence of adequate preparation in the basic fields of English, mathematics, and foreign language. Any deviation should be discussed in advance with the Dean of Admission.

ADVANCED PLACEMENT

In certain subjects candidates who have completed advanced work in secondary schools may apply for advanced placement at Amherst. Each case will be considered individually on its own merits. Candidates interested in Advanced Placement are urged to take the Advanced Placement Tests given by the College Entrance Examination Board. Questions about Advanced Placement should be directed to the *Dean of Admission*.

SCHOLASTIC APTITUDE AND ACHIEVEMENT TESTS

All applicants for admission are required to take the Scholastic Aptitude tests, two achievement tests and the writing sample test, all given by the C.E.E.B. Applicants are urged to take the January aptitude tests except for the writing sample test which must be taken in December or January. Applicants should register for these examinations as soon as possible with the Secretary of the College Board, Box 592, Princeton, New Jersey. Students living in Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming, Alaska, Hawaii or Australia should register with the Secretary of the College Board, Box 9896, Los Feliz Station, Los Angeles 27, California. Veterans are exempted from these tests if their location and service make examinations impossible.

Achievement tests in March of Senior year should include a test in language if this subject is being studied in *Senior year*. *Applicants who wish to deviate from this program should consult the Dean of Admission*. It is recommended that all students in the eleventh grade who plan to attend a college using the College Board Tests take the May Scholastic Aptitude Tests and the Achievement Tests in language and mathematics, if these subjects are not to be pursued in twelfth grade.

Students who graduate at mid-year time should take all tests in December or January of Senior year.

REGENTS EXAMINATIONS

Applicants from the New York State public schools are expected to submit scores made on the Regents Examination in addition to the Scholastic Aptitude and Achievement Tests given by the College Entrance Examination Board.

ADMISSION FROM OTHER COLLEGES OR INSTITUTIONS OF
COLLEGIATE RANK

Correspondence concerning admission of transfers should be addressed to the Dean of Admission.

To be eligible for transfer the candidate must meet the following requirements:

1. His credits must satisfy the full entrance requirements of Amherst College.

2. He must have completed creditably the work of at least one year in an institution of collegiate rank, and his general average at the institution he is leaving must correspond to or be better than the Amherst diploma average of seventy per cent.

3. He must present a statement of honorable dismissal.

4. He must file a formal application for admission by transfer.

Candidates for admission by transfer are admitted in September only.

Candidates should note that, in general, only students with a B average or better will be accepted for admission as transfers, and should further note that few transfers will be admitted to Amherst in September of 1961.

SPECIAL BOOKLET

A descriptive booklet entitled *This Is Amherst* may be had upon application to the *Dean of Admission*.

COOPERATIVE ENGINEERING-SCIENCE PROGRAM

In order to facilitate the combination of a liberal arts course with education in science and engineering, Amherst College will permit a student of high standing to pursue a five-year program in which the first three years will be spent at Amherst College and the last two years at the Massachusetts Institute of Technology, or any other engineering school approved by the Dean of the College with the understanding that if the five-year program is satisfactorily completed the student will receive the degree of Bachelor of Arts from Amherst College and the degree of Bachelor of Science from the engineering school.

Regulations

TERMS AND VACATIONS

The college year 1960-1961 includes two regular semesters of sixteen weeks each. In the fall semester there is a Thanksgiving recess of approximately five days, and a Christmas vacation of two weeks; and in the spring semester, a vacation of two weeks.

ATTENDANCE AT COLLEGE EXERCISES

The officer in general charge of matters concerning attendance at college exercises is the Assistant Dean of the College.

Students are expected to attend classes regularly and promptly. Attendance at all laboratory periods is required. First-term freshmen and students on probation are allowed no unexcused absences from class or laboratory periods. Each student, unless he is on the Dean's List, must attend his last class before and his first class after the Thanksgiving, Christmas and Spring recesses. At the beginning of the semester each instructor will state his policy with regard to absences in his course, and thereafter he will report to the Dean's Office the name of any student who violates the regulations which the instructor has set up for his own course. In such cases the Dean's Office will take appropriate action which may include a reduction in his credit hours or he may be dropped from the course, or he may be suspended, or he may be dropped from college.

Absences for certain recognized reasons are normally excused. Considerable discretion should be used with regard to unexcused absences, since such absences, even if not excessive, tend to reduce the effectiveness (or value) of the course. The responsibility for any work missed because of an absence rests entirely upon the student.

All official college vacations and holidays are announced on the College Calendar appearing on page 5 of this catalog.

Morning chapel services are conducted Monday, Tuesday, Thursday and Friday mornings. All students are required to attend one-half of the chapel services each week.

STUDENT DISCIPLINE

The officer in general charge of student discipline and conduct is the Assistant Dean.

Conduct befitting a gentleman is expected at all times of students at Amherst College. It is assumed that undergraduates will understand what constitutes gentlemanly conduct without specific regulations forbidding particular actions.

The College reserves the right to exclude at any time students whose conduct or academic standing it regards as undesirable, and without as-

signing any further reason therefor; in such cases fees will not be refunded or remitted, in whole or in part, and neither the College nor any of its officers shall be under any liability whatsoever for such exclusion.

RECORDS AND REPORTS

The officer in charge of records and reports is the Registrar of the College.

Reports of standing are sent to parents or guardians at the end of each term. Rank in each subject is reported numerically as follows: A, 90-100%; B, 80-89%; C, 70-79%; D, 60-69%; E, 50-59%; F, below 50%. The passing grade in each individual course is 60%, and an overall average of at least 70% is required for a degree.

Students' records are confidential and information is released only at the request of the student or of appropriate institutions and officials. Partial transcripts are not issued. Each transcript includes a student's complete record at Amherst College to date.

The first three transcripts are furnished free of charge. For additional transcripts there is a charge of \$1.00 each, due at the time the transcript is issued at the Office of the Registrar. Checks should be made payable to Amherst College. No records are issued to or for students with unpaid accounts at the Comptroller's Office.

ROOMS AND BOARD

All students, unless specifically excused by the Dean, are required to live either in the dormitories of the College or in fraternity houses. Dormitory rooms are equipped with bed, mattress, pillow, chiffonier, desk, chairs, and bookcase or shelves. Occupants furnish their own blankets, linen, and towels, and may provide extra furnishings if they wish, such as rugs, curtains, lamps, etc.; they may not add beds, sofas, lounges, or other furniture of such nature except under certain circumstances. More complete regulations for dormitory occupancy are contained in the Student Handbook. Room assignments are noted on the invoice from the Comptroller's Office.

All students are required to eat in Valentine Hall unless excused by the Dean. There are no rebates for absence from meals for any reason.

STUDENT HEALTH

The officer having general supervision of health, medical care and physical development is the College Physician.

The Student Health Office is in the Gymnasium. The College Physicians have regular hours when they may be consulted for problems concerning health, injury or illness. Every new student is given a physical

examination soon after his arrival, for the purpose of making a general survey of his health, and in order to classify and advise him as to suitable physical and athletic activity. The College Physician medically supervises all athletic activities, and provides first aid and medical care in case of injury.

The College Infirmary is a modern well-furnished and comfortable building which has a normal capacity of 22 beds, easily expanded to 40 beds when needed, and to 90 beds in case of an epidemic. It is staffed on a 24-hour basis by graduate nurses.

The regular medical staff includes the College Physician on a fulltime basis, and an orthopedist and psychiatrist who have regular consulting hours on a part-time basis.

Facilities for the adequate care of the great majority of the students' illnesses and injuries are available in the Student Health Office and College Infirmary. Outside medical consultants in almost all specialties are available when recommended by the College Physicians. Hospitalization, when needed, is usually at the Cooley Dickinson Hospital in Northampton.

A health fee of \$20 per semester is charged to each student. This entitles him to the services of the Student Health Office, the College Infirmary and the College Physicians for illnesses and injuries occurring while college is in session, but does not assume the cost of continuing treatment of illness or injury contracted prior to the student's admission to Amherst or while college is not in session, nor are any of these benefits available to a student after his graduation, withdrawal or dismissal from College. It does not include the cost of off-campus services, such as outside medical services, medical consultants, hospitalization, medical or surgical services in hospital, special nursing, outside laboratory or x-ray services, dental care, medical prescriptions, glasses, etc.

There is available to all students a group accident and sickness insurance policy effective for twelve months beginning September 15th of each year at a cost of \$20 a year. The College merely collects this premium for the Indemnity Insurance Company of North America which writes the policy. Briefly, this is a "blanket" policy which covers 80 % of all medical expenses while under the care of a legally qualified physician or surgeon, to a limit of \$5,000, subject to a deductible sum of \$50 for services incurred at a time when the college facilities are not available. Payment for psychiatric services is limited to a maximum of \$1,000 in each case. Routine dentistry is not covered.

No student will be admitted to Amherst College who has not been successfully vaccinated for small-pox or who is unwilling to submit to such vaccination by the College Physician within three months after admission.

Students who are unable to attend classes because of illness are expected

to go to the Infirmary unless living with their families in Amherst or vicinity. Sick excuses are given only for such time as is spent in the infirmary; or if with their families under a physician's care.

Parents will be notified of infirmary admissions in the case of significant illness or injury. If such cases are serious or unusual, notification will be by telephone. In emergencies requiring immediate surgery, when parents cannot be consulted in advance, the President will assume responsibility for the authorization of operation.

GUIDANCE AND PLACEMENT

In liberal arts colleges such as Amherst, where few studies are of direct occupational significance, it is natural that many undergraduates find their most perplexing problem that of making a proper choice of a life career. To help undergraduates solve this problem, the College offers an occupational guidance program under the leadership of a Director of Guidance and Placement. This program assists students to (1) discover their own special interests, aptitudes, talents, and powers; (2) discover the most promising outlets for these special and individual powers; (3) become familiar with the best techniques in obtaining a job, (4) recognize the principal adjustments needed in changing from a life on the campus to one in the business world, and (5) arrange for interviews with government agencies, business concerns, and other groups interested in employing Amherst graduates. An important part of the guidance program is the annual Career Conferences which bring to Amherst lawyers, doctors, teachers, government employees, business men and others for two week ends of discussion with interested undergraduates in many career areas.

The undergraduate who participates in this voluntary program will find himself better prepared to make a wise vocational choice and better equipped to face the business world.

Tuition and Fees

The officer having general supervision of the collection of Tuition and Fees is the Comptroller.

A candidate's formal application for admission should be accompanied by a \$10.00 application fee in check or money order made payable to Amherst College. Upon notification of admission to the College a candidate is required to return with his acceptance a non-refundable advance payment of \$100 which will be credited in full on the first term bill.

Student accounts are payable at the Office of the Comptroller. Semester bills will be mailed approximately two weeks before the due date. Freshmen and other new entrants should make payments on or before arrival. Advance payment by mail upon receipt of bill will be a convenience to the student and to the college.

For those who wish the convenience of monthly payments, arrangements have been made for a pre-payment plan, including insurance for continued payment in case of death or disability of the parent. For further details write to Insured Tuition Payment Plan, 38 Newberry Street, Boston 16, Massachusetts.

Unless special arrangements have been made with the Comptroller *in advance*, payment in full is expected when due. The due dates are Friday, September 16, 1960 for the first semester, and Monday, January 23, 1961 for the second semester.

Identification cards must be picked up in person at the Comptroller's Office before course cards may be obtained.

SUMMARY OF CHARGES

	<i>Each Semester</i>	<i>Total for Year</i>
Tuition	\$525.00	\$1,050.00
Room	137.50	275.00
Board	225.00	450.00
Health Fee	20.00	40.00
Intercollegiate Athletic Fee	17.00	34.00
Student Activities Fee	18.00	36.00
Total	\$942.50	\$1,885.00

Note: Effective September 1961 Amherst's comprehensive charges will be increased \$150 annually. This includes \$100 tuition, \$25 for room and \$25 for board. This increase will bring the charges to approximately \$2035 for the year.

On the first semester bill will be a charge of \$20 for twelve months Accident and Sickness Insurance from Sept. 15. If this protection is not desired, the parent or guardian may, not later than Sept. 19, state in

writing that the college is relieved of all responsibility in this connection, and request cancellation of the charge. The required Health Fee of \$40 covers only the services of college doctors and campus facilities while college is in session, but no off-campus facilities, consultants or surgeons.

Each new student, or former student reentering, is charged a \$25 Guarantee Deposit refundable after he graduates or otherwise leaves college, less any unpaid charges against him.

Each Senior or candidate for M.A. degree is charged a degree fee of \$15 in his final semester.

Miscellaneous charges such as fees for late registration, change of courses, extra courses, library fines, lost or damaged property, etc., are payable currently when incurred.

For delinquencies in Physical Education a charge of \$30 will be levied each semester following sophomore year until the delinquency is removed.

Scholarship awards will be credited on the semester bills. Scholarship loans will be credited after signed notes are received. Scholarships from outside donors will be credited when received. Awards on the second semester bill are tentative, subject to a satisfactory record in the first semester work.

The \$100 advance payment collected from entering Freshmen at the time of acceptance will be credited on the first semester bill.

A fee for the support of various activities of the student body is determined by the Student Council. This fee is collected by the College and turned over to the Director of Student Activities for expenditure under his supervision. For the year 1960/61 the fee has been set at \$33.00. For this fee each student receives a copy of the yearbook, the OLIO; a one year's subscription to the student newspaper and magazine, *The Amherst Student* and *The Amherst Literary Magazine*; and contributes to the support of the college band, the Glee Club, the Prom, the Debate Council, the radio station, the crew, and sundry other activities of the student body which fall under Council jurisdiction. To this fee is added \$3.00 covering admission to Masquers performances which are under College rather than Council jurisdiction, making a total of \$36.00, one half of which, \$18.00, will appear on each semester bill.

SUMMARY OF EXPENSES

Beyond the total amount billed by the College will be the student's personal expenses, membership dues in student organizations, clothing, travel, books, and miscellaneous items, all of which will vary greatly with the individual but will probably range from one to two hundred dollars per semester.

Scholarships and Financial Aid

The officer directly in charge of the administration of scholarships and beneficiary aid is the Associate Dean.

The beneficiary funds of the College aggregate over \$3,100,000. The income of these funds is distributed annually among students of high character and superior scholastic ability who can demonstrate financial need. For a full list of the funds see the Appendix.

SCHOLARSHIPS FOR THE THREE UPPER CLASSES

Applicants for scholarships, or for renewal of scholarships, from the three upper classes must file at the Associate Dean's office, on or before May 1st, an account of their income and expenditures for the preceding year, and an estimate of their income and expenditures for the following year.

As a minimum scholastic requirement, applicants for scholarships from the three upper classes must pass all of their courses of the preceding year with an average of at least seventy-six per cent. In general, awards are restricted to students who stood in the upper half of their respective classes during the previous college year.

SCHOLARSHIPS FOR INCOMING STUDENTS

More than 65 scholarships are awarded annually to applicants for admission to college who are in need of financial aid and who meet in full the entrance requirements. These scholarships range from \$200 to \$2000 per year. They are awarded for the first term in residence and entitle the recipient to a credit on the first bill. The continuation of each scholarship for the following term depends upon the student's passing all of his courses in his first term with an average of at least seventy-six per cent, and, when granted, involves a credit on the next term bill. All candidates for these scholarships must be candidates for admission and must take the Scholastic Aptitude Test and Achievement Tests, given by the College Entrance Examination Board. Correspondence concerning scholarships should be addressed to the Associate Dean of the College, Amherst College, Amherst, Massachusetts. Each applicant for scholarship aid must file a formal application before February 1. No special examinations are needed other than the College Board tests required for Admission.

SCHOLARSHIP FUNDS

Throughout the whole history of the College, funds have been given or bequeathed, the incomes of which are to be used for the assistance of worthy and needy students. A few of these funds are restricted to candidates for the ministry and a few of them are restricted by other factors,

such as the geographical location of the home of the applicant. In some cases it is stipulated that the award from a particular fund shall be made to a particularly designated student. For the most part, however, the income of these funds may be awarded as the College sees fit. Three State Scholarships of full tuition are awarded annually to qualified residents of Massachusetts.

FINANCIAL AID POLICY

In recent years the cost of attending colleges and universities has risen considerably and with it there has been an increased need for financial aid. To handle this, Amherst has recently broadened its financial aid program so that scholarship grants, loans and employment all play an important part. Once the financial assistance required by a student is determined, a portion of the aid may be an outright grant in the form of a scholarship, a portion may be in the form of a loan, and some may be supplied through the earnings of the student at college. Generally speaking, the loan will not exceed 20% of the total aid in the sophomore year, 30% in junior year and 40% in senior year. Special circumstances of an individual may vary these proportions. The loans bear an interest rate of 1% per annum until one year after graduation, or completion of graduate school or military service. Thereafter, repayment will be made at a minimum of \$10 per month which will include interest at the rate of 2% per annum. Scholarship aid is not contingent upon acceptance of a loan, and some students may prefer to earn more money in the summer or during the college year so that no loan will be needed.

In addition to the loans which are made in conjunction with scholarship grants there is a Student Loan Fund (see below).

SPECIAL SCHOLARSHIPS

Sloan National Scholarships: These special awards were established by the Alfred P. Sloan Foundation and are open to applicants who reside in the continental United States. With one exception, the stipends granted under these scholarships will vary with the financial need of the applicant. Awards will range from a minimum of \$200 to a maximum of \$2000 and will be renewed each year provided the recipient's performance continues on a high level and his relative financial need does not change. One \$200 honorary Sloan Award will be made to an outstanding applicant irrespective of financial need. Sloan awards will be made to men who have outstanding academic records in secondary school, who have demonstrated unusual initiative, and who appear to have the character and personality required for future leadership.

Alumni Fund Scholarships: A limited number of special awards financed from the Amherst Alumni Fund are available for outstanding students de-

pending upon financial need. Stipends range up to \$2,000 and are renewed annually unless the recipient fails to maintain a high scholastic average or his financial need decreases.

General Motors College Scholarship: The stipend for this award is determined on the basis of demonstrated need up to a maximum of \$2,000 per year. The purpose of this award is to provide funds to enable an outstanding student to attend college irrespective of his financial resources. The primary considerations apart from demonstrated need are the worth, talent, and qualifications of the individual applicant. The General Motors award will be renewed for the four undergraduate years provided the student continues to meet the required standards.

Procter and Gamble Scholarship: This award includes full tuition and an annual allowance for books, fees, and supplies (excepting room and board) for the entire four-year course. This scholarship will go to a student of unusual ability and promise who could not attend college without considerable financial assistance.

Other Special Scholarships: Also available in recent years have been scholarships sponsored by several other foundations, trusts, and corporations. These organizations include The Westinghouse Corporation, The Edwin Gould Foundation for Children, Merrill Lynch, Pierce, Fenner & Smith, The Agnes M. Lindsay Trust, the Hubshman Foundation and the Allied Chemical and Dye Corporation.

RESIDENTS OF AMHERST

Free tuition may be granted at the discretion of The Trustees of Amherst College to applicants for admission who can satisfy in full the entrance requirements for Amherst College, who have been residents of Amherst for three years before the time of admission to college, and whose parents have also been residents of Amherst for three years. The grants of free tuition are continued throughout the college course, provided the students concerned satisfy the scholarship requirements of the College, conform to its regulations, and the parents of the students concerned continue to live in Amherst.

STUDENT LOAN FUND

Through the liberality of friends of the College, provision is made for loans of a limited amount to a few students in the later years of the course, at a low rate of interest, upon notes to be paid in subsequent years. In accordance with the conditions imposed by the donors of the Loan Fund, its use is limited to students in good scholastic standing whose habits of expenditure are economical. Application blanks may be obtained at the Associate Dean's office.

Degree Requirements

MASTER OF ARTS

The Master of Arts degree is conferred upon students who have received the Bachelor of Arts degree either from Amherst College or from another college which has similar requirements for the Bachelor of Arts degree, and who have met the requirements described below. Application forms and a detailed explanation of the requirements may be obtained from the Dean. The tuition charge for the Master of Arts degree is \$1,050.

REQUIREMENTS FOR MASTER OF ARTS DEGREE

To become a candidate for the Master of Arts degree, students are expected to have at least a B average or its equivalent in their undergraduate work. They should secure approval of proposed courses of study from the Dean, the department concerned, and the Committee of Six, not later than the June preceding the opening of the college year in which they plan to begin work for this degree.

Candidates are required to complete at least eight semester courses of advanced character, or the equivalent, under the direction of the department concerned, to secure grades of at least B in every course, to spend a minimum of two semesters in residence in Amherst College, to prepare a satisfactory thesis, and to pass oral and written comprehensive examinations:

BACHELOR OF ARTS

The degree of Bachelor of Arts is conferred upon students of Amherst College who have satisfactorily met the requirements prescribed for that degree. The plan of studies leading to the degree Bachelor of Arts is arranged on a basis of the equivalent of an eight-semester course to be pursued by students in residence at the College.

The Bachelor of Arts degree *cum laude*, *magna cum laude* or *summa cum laude* (Degree with Honors) is awarded to students who have successfully completed an approved program of honors work with a department or group.

To other students who have satisfactorily met the requirements the degree Bachelor of Arts *rite* is awarded.

REQUIREMENTS FOR BACHELOR OF ARTS DEGREE

The degree of Bachelor of Arts is awarded to students who complete a minimum of one hundred and twenty-eight credit hours, of which at least sixty-four must be completed in the freshman and sophomore years, and at least sixty-four in the junior and senior years; who in freshman and sophomore years complete three two-year sequence courses in natural science, social science, and English-Humanities; who in junior and senior

years take at least fifteen credit hours outside the division in which they are majoring; and who complete certain prescribed work in public speaking and physical education.

Beginning with the class of 1962, a student is required to pass a comprehensive examination in his major department before he is eligible to receive the degree Bachelor of Arts.

Note A: A Sophomore who finds it necessary to exceed the sixty-four credit-hour minimum of the first two years in order to take an introductory course in a department in which he plans to major may, with the Dean's permission, postpone a required sophomore course to the junior year.

Note B: A portion of the fifteen credit-hour extra-divisional requirement may be waived by departmental representatives whenever they consider it justified. In such cases, students, both *rite* and honors, must submit a written statement to the representatives of the departments in which they are majoring giving the reasons why the requirement should be waived.

Note C: With permission of the Dean students may take Astronomy 22 in lieu of Science 22 in satisfying the sophomore science requirement.

Note D: In order to satisfy the Humanities requirement, students must elect, in addition to the prescribed freshman humanities course, three further semester courses, for a total of at least nine credit hours, from the following three groups:

- (a) Philosophy, Religion, Classical Civilization
- (b) Music, Fine Arts, Dramatic Arts
- (c) English or foreign literature.

The requirement may be met *either* by electing one semester course from each of the three groups *or* by electing two semester courses from one group and an additional semester course from either of the other two groups. Two of these courses must be completed by the end of the sophomore year. The particular courses which may be offered in satisfaction of this requirement are those designated by the departments concerned in their announcement of course offerings, and are listed on page 6, Section 3 of the 1960-1961 *Announcement of Courses*.

Candidates must have no deficiencies in the work of any year; must satisfy the language requirement in French, German, Italian, Russian, Spanish, Latin or Greek; must attain a general average of 70 percent in the courses completed at Amherst College and a grade of at least 70 percent in every course completed in another institution.

Note E: Candidates' averages each semester are computed on the basis of all courses taken at Amherst College, and candidates must have a general average, including failure grades, of 70 percent in courses taken at Amherst College to be eligible to receive the degree Bachelor of Arts.

A major consists of the equivalent of thirty credit hours pursued under

the direction of a department or special group. A major cannot begin later than the junior year and may begin in either the freshman or sophomore year. At least one course in the major must be included in each semester of both junior and senior years. Each department decides whether a freshman course in a department shall count toward its major.

The major can be met in accordance with either of two plans:

Plan A: A student may complete the thirty credit hour requirement within one department. He must complete at least twenty-two credit hours within one department, however, in which case he may complete the remaining credit hour requirement in related fields approved by the department.

Plan B: Combinations of courses not provided for under Plan A, but similar in aim to the established group majors in American Studies, Renaissance Studies and Biophysics, may be made with the consent of the several departments concerned and of the Dean.

LANGUAGE REQUIREMENTS

The college language requirement may be satisfied in any of the following languages: French, German, Italian, Russian, Spanish, Latin, or Greek.

In modern languages the requirement may be met in either of the following ways:

1. At entrance, by a satisfactory score in the College Entrance Examination Board Achievement Test in the language, plus a demonstration of ability to comprehend the spoken language as shown either by a satisfactory score in the Listening Comprehension Test administered by the College Entrance Examination Board, or in an aural examination to be given to freshmen at the beginning of the college year.

2. After entrance, by passing course 5 in French, German, or Spanish; or by passing course 21 in Italian; or by passing Course 3 in Russian; or by passing reading and aural comprehension examinations to be given at the end of course 3 in French, German, Italian, or Spanish.

In ancient languages the requirement may be met in either of the following ways:

1. At entrance, by a satisfactory score in the College Entrance Examination Board Achievement Test in Latin or Greek.

2. After entrance, by passing Latin 3 with a grade of C, by passing any higher numbered course in Latin, or by passing Greek 3.

DEGREE WITH HONORS

The degree Bachelor of Arts with honors is awarded at graduation to students whose academic records give evidence of particular merit. It

may be awarded *cum laude*, *magna cum laude*, or *summa cum laude*, according to the level of achievement of the candidates. All degrees with honors are noted on the diploma and the Commencement program, and are announced in the annual catalog.

The award of honors is made by the Faculty of the College. In making such awards the Faculty will take into account the following factors: (1) Candidates must have a minimum college average of 80 to be eligible to be considered for the degree *cum laude*, of 86.00 for the degree *magna cum laude*, and of 90.00 for the degree *summa cum laude*. (2) Candidates must receive the recommendation for the degree *cum laude*, *magna cum laude*, or *summa cum laude* from the department in which they have done their major work. Each department will define the conditions upon which it will be their practice to make recommendations to the Faculty. (3) In the case of the award of *magna cum laude* and *summa cum laude* the Dean and the Committee of Six will review the entire record of candidates and will transmit to the Faculty their recommendations. Only students of marked distinction in both general work and in the field of honor studies will be recommended for the *summa cum laude* degree.

In exceptional cases, upon recommendation of the department in which

COURSE DIVISIONS

1960-1961

DIVISION I <i>The Humanities</i>	DIVISION II <i>Social Studies</i>	DIVISION III <i>Mathematics and Natural Sciences</i>
Dramatic Arts English Fine Arts French German Greek Humanities Italian Latin Music Philosophy Public Speaking Religion Russian Spanish	American Studies Economics History Legal Studies Political Science	Anthropology Astronomy Biology Biophysics Chemistry Geology Mathematics Physics Psychology Science

the candidate has done his major work, the Committee of Six may recommend to the Faculty that a student be awarded a degree of honors for which he does not have the required average.

A student is expected to have a general average of at least 80 percent at the time he is accepted as a candidate for honors in a department or group. However, if the department concerned approves, a student whose average is below 80 percent may become a candidate for the degree with honors.

CURRICULUM FOR FIRST TWO YEARS 1960-61

The complete program for freshmen and sophomores is:

<i>Science</i>	<i>History</i>	<i>Humanities</i>	<i>Elective</i>	<i>Public Speaking</i>
FRESHMAN YEAR				
Physical Science and Mathematics	European Civilization	English and Humanities	Foreign language or other elective	
SOPHOMORE YEAR				
<i>Two semester courses from:</i> A. Chemistry and Biology B. A semester course in Evolution of the Earth and Man and a semester course in either Astronomy, Biology, Chemistry, Geology, or Psychology C. Astronomy 22 (see Note C, page 43)	Problems in American Civilization	<i>Two courses from:</i> A. Literature — English or foreign B. Philosophy, Religion, Classical Civilization C. Fine Arts, Music and Drama	Elective	Public speaking

A candidate for a degree with honors may be permitted, at the discretion of the department in which he is majoring, to substitute in his junior year a conference course for one of his regular three- or four-hour courses, and in his senior year a conference course for one or two of his regular three- or four-hour courses.

FOUR COLLEGE COURSES

Amherst has an arrangement with Mount Holyoke College, Smith College and the University of Massachusetts by which any of their courses are open to our students if properly qualified and if, in the opinion of the Dean, this procedure seems reasonable. The courses concerned will ordinarily be advanced courses in the student's major subject, not available currently on this campus. In general, permission to take courses on another campus will be given only to students who are or who expect to be candidates for honors.

FACULTY STATEMENT ON INTELLECTUAL RESPONSIBILITY

In response to efforts by the Student Committee to the Faculty to institute an honor system at Amherst College, the Faculty voted the following statement in June, 1958.

A STATEMENT OF INTELLECTUAL RESPONSIBILITY AMONG STUDENTS AT AMHERST COLLEGE

The following Articles are an institutional expression of the basic fact that every man's education is the product of his own intellectual efforts. Amherst cannot educate a man who will not educate himself. Amherst sees no value in making its facilities available to a man who avoids the responsibility and opportunity for his own education. Every man who enrolls and remains at Amherst, therefore, understands that to submit work which is not his own violates the purpose of the College and of his presence there. No intellectual community can maintain its integrity or be faithful to its members if violations of its central purpose are for any reason tolerated.

This principle of intellectual responsibility applies to all work done by students.

ARTICLE I

Initially each student will be furnished with a copy of this statement, and it will be perpetuated in the Amherst College Bulletin, Student Handbook, and other publications deemed appropriate. The following

affirmation will be printed on the face of course enrollment cards for every course; it must be signed before enrollment can be considered.

I have read, understand, and accept the Statement of Intellectual Responsibility Among Students at Amherst College, and agree with this principle as it relates to this course.

.....(signed)

ARTICLE II

Section 1. The practice of proctoring examinations is hereby discontinued.

Section 2. The instructor may be present at examinations to answer any questions that may arise.

ARTICLE III

The Student Council shall make provision for explaining the Statement of Intellectual Responsibility Among Students at Amherst to incoming freshmen during the orientation period and for publicizing and interpreting this Statement during the year. The Student Council will consider any problems of maintaining intellectual responsibility which are brought before them by the students. They will make any recommendations which they deem advisable for action by the Faculty and Administration. At some time each year this committee shall also be responsible for a serious review of the effectiveness of these procedures in promoting the central purpose of the College.

II

Courses of Instruction

Courses of Instruction

1960-1961

a. Freshman courses are numbered 1-20; sophomore courses 21-40; and junior and senior courses 41-80.

b. In general, odd-numbered courses are given in the first semester, and even-numbered courses in the second semester; the letter "S" after a number indicates that the number of the course is an exception to the usual numbering system.

c. Honors courses are offered to eligible juniors and seniors and are numbered 69, 70 and 79, 80 respectively. Election of these courses may be made only by candidates for a degree with honors unless exception is made by the department concerned and by the Dean.

Reading Course

INDEPENDENT READING

1 to 3 credit hours

Under the direction and at the discretion of a member of the faculty, the several departments offer an independent reading course which will permit selected upperclassmen to read widely in a field of special interest. The student will be on his own, will pursue an extensive program of independent reading, and will be subject to an examination at the end of the semester. This examination by his supervisor will determine his grade for the course. The number of credit hours will be based on the extent of the reading the student undertakes and the degree of maturity and difficulty of the body of works read and will be determined by consultation between teacher and student before the start of the semester.

The student will develop a coherent plan of reading beyond the basic bibliography with which he starts and will be able to follow specialized topics opened up by his general reading.

Interested students should consult with a member of the faculty in the department in which they wish to work. *Elective for Juniors and Seniors for one or both semesters each year.*

GROUP READING COURSE

1 credit hour

Under the direction of a member of the faculty any group of students may organize themselves to read in a field of special interest. *Elective for all students. Offered first and second semesters.*

Senior Colloquium

SENIOR COLLOQUIUM.

4 credit hrs.

The class will read each week one book of primary importance not commonly assigned in other courses, and will meet with both instructors for discussion once a week in the evening for two hours and a half. Perhaps once a month and at the beginning of the course more frequently, a student will be expected to submit a journal or commonplace book in

which he has recorded a critical appraisal of his reading together with other observations. Limited to approximately twelve students. *Elective for Seniors with the consent of the instructor. Second semester. (Omitted 1960-61.)*

American Studies

Professors COMMAGER, * KENNEDY, † LATHAM, B. MORGAN, MARX, ROZWENG, TAYLOR, WARNE, and ZIEGLER; Associate Professors GREENE * and MORGAN; Assistant Professors HALSEY, HAWKINS and KATEB; Messrs. GUTTMANN, RAPSON and SCHRAG.

American Studies is a program which searches for an understanding of the relations among institutions, ideas, and artistic imagination within the American experience. By combining work in a number of the traditional scholarly disciplines it aims to place the student in a position where he can see and can make some statements about these relations.

A major in American Studies is required to develop a program of courses and independent reading which will enable him to pass a series of intensive written and oral examinations in the spring semester of the senior year. The new examinations for American Studies will apply to students in the class of 1962 and after. These examinations will cover two aspects of American civilization described as follows:

(1) A major in American Studies is expected to know the main forces which have shaped American life in every period of American history—from the first settlement at Jamestown to our contemporary society. Consequently an American Studies major must understand the basic political and social institutions of every period, the basic forms of economic organization, the competing myths and ideologies, and the programs of social action.

(2) A major in American Studies is expected to have studied the classic writings and other creative efforts in the American intellectual tradition. This includes significant works in literature, art, philosophy, and political and social theory.

Although the Department of American Studies regards the two semester courses in "The History of American Society" (History 33-34) as the nearest equivalent to a foundation course, majors in American Studies are expected to work out for themselves a program of study inside and outside of courses which will enable them to pass the intensive examinations of the senior year. Such a program of study should include a heavy emphasis on history and literature, and a disciplined knowledge of at least one other field *viz.*, economics, political science, sociology, philosophy, art, or music.

All majors in American Studies will be given a reading list which will be made available to them at the end of the sophomore year. At the beginning of the first semester of the senior year all majors in American Studies shall

* Absent on leave 1960-61.

† Absent on leave first semester.

take a written examination on the works which appear on the reading list. Students who fail to perform satisfactorily in this examination in September (or in a second try in December) will not be permitted to take either the *rite* or honors seminar in the senior year. Such students will be required to complete, on their own, an extended list of readings in preparation for an examination at the end of the senior year which will enable the Department of American Studies to determine whether or not they can be recommended for the degree of Bachelor of Arts.

American Studies 72 is required of all majors in American Studies who are not admitted to the honors program and is to be taken in the senior year.

American Studies 70, 79 and 80 are required of all honors candidates. In conjunction with American Studies 79 and 80, each candidate shall write an original essay on a topic which has been approved by the Department.

21, 22. PROBLEMS IN AMERICAN CIVILIZATION. Professors HALSEY, HAWKINS, KATEB, KENNEDY, MARX, MORGAN, ROZWENC, TAYLOR, WARNE, and ZIEGLER; Messrs. GUTTMANN, RAPSON and SCHRAG.

A study of selected problems in American civilization. This course does not provide a survey of American history, but centers attention on a limited number of topics which are treated from various viewpoints, including the political, economic, and cultural. Five lectures and one two-hour laboratory period every two weeks. *Required for Sophomores. First and second semesters. Four credit hours each semester.*

24. THE AMERICAN ECONOMY. Professor NELSON. *4 credit hrs.*

(Same course as Economics 24.) *Elective for Sophomores. Second semester.*

25. AMERICAN CONSTITUTIONAL DEVELOPMENT. *4 credit hrs.*

Professor LATHAM.

(Same course as Political Science 25.) *Elective for Sophomores. First semester.*

27. POLITICAL PARTIES. Professor KESSEL. *4 credit hrs.*

(Same course as Political Science 27.) *Elective for Sophomores. First semester.*

33. THE HISTORY OF AMERICAN SOCIETY. *4 credit hrs.*

Professor ROZWENC

(Same course as History 33.) *Elective for Sophomores. First semester.*

34. THE HISTORY OF AMERICAN SOCIETY. *4 credit hrs.*

Professor ROZWENC.

(Same course as History 34.) *Elective for Sophomores. Second semester.*

36. THE HISTORY OF AMERICAN EDUCATION. 4 credit hrs.
 Professor HAWKINS.
 (Same course as History 36.) *Elective for Sophomores. Second semester.*
42. LABOR ECONOMICS. Professor WARNE. 4 credit hrs.
 (Same course as Economics 42.) *Elective for Sophomores. Second semester.*
43. AMERICAN LITERATURE. 3 credit hrs.
 Professor MARX, Messrs. GUTTMANN and KENSETH.
 (Same course as English 43.) *Elective for Juniors. First semester.*
44. AMERICAN LITERATURE. 3 credit hrs.
 Professor MARX, Messrs. GUTTMANN and KENSETH.
 (Same course as English 44.) *Elective for Juniors. Second semester.*
- 45S. AMERICAN ART. Professor C. MORGAN. 3 credit hrs.
 (Same course as Fine Arts 45.) *Elective for Juniors. Second semester.*
47. AMERICAN PHILOSOPHY. Professor EPSTEIN. 3 credit hrs.
 (Same course as Philosophy 47.) *Elective for Juniors. First semester.*
55. AMERICAN POLITICAL THEORY. Professor KATEB. 3 credit hrs.
 (Same course as Political Science 55.) *Elective for Juniors with the consent of the instructor. First semester. (Omitted 1960-61.)*
57. THE SOUTH SINCE THE CIVIL WAR. Professor HAWKINS. 4 credit hrs.
 (Same course as History 57.) *Limited to 25 students. Elective for Juniors. First semester.*
59. SOCIETY AND POLITICS IN DE TOCQUEVILLE'S AMERICA. 4 credit hrs.
 Professor ROZWENC.
 (Same course as History 59.) *Elective for Juniors. First semester. (Omitted 1960-61.)*
60. SOCIETY AND POLITICS IN THE ERA OF THE NEW DEAL. 4 credit hrs.
 Professor ROZWENC.
 (Same course as History 60.) *Elective for Juniors. Second semester. (Omitted 1960-61.)*
61. FOUNDATIONS OF AMERICAN CIVILIZATION. 4 credit hrs.
 Professor GREENE.
 (Same course as History 61.) *Elective for Juniors. First semester. (Omitted 1960-61.)*
62. AMERICAN DIPLOMATIC HISTORY. Professor GREENE. 3 credit hrs.
 (Same course as History 62.) *Elective for Juniors. Second semester. (Omitted 1960-61.)*

63. AMERICAN ECONOMIC HISTORY. PROFESSOR TAYLOR. 4 credit hrs.
(Same course as Economics 63.) *Elective for Juniors. Limited to 15 students. First semester.*
64. AMERICAN ECONOMIC HISTORY. PROFESSOR TAYLOR. 4 credit hrs.
(Same course as Economics 64.) *Elective for Juniors. Limited to 15 students. Second semester.*
65. READINGS IN AMERICAN LITERATURE. 4 credit hrs.
PROFESSOR MARX.
(Same course as English 65.) *Elective for Juniors. First semester. Seminar course limited to ten students, admission with the consent of instructor.*
66. THE PROGRESSIVE GENERATION. PROFESSOR GREENE. 4 credit hrs.
(Same course as History 66.) *Limited to 25 students. Elective for Juniors. Second semester. (Omitted 1960-61.)*
70. INTRODUCTION TO HONORS WORK IN AMERICAN CIVILIZATION.
PROFESSORS ROZWENC and HAWKINS. 4 credit hrs.
A study of classic writings in diverse areas of American Civilization plus modern works representing problems of methodology in the various disciplines within the American Studies program. One two-hour seminar weekly. *Elective for Juniors with the consent of the department. Second semester.*
71. THE ORIGINS AND DEVELOPMENT OF AMERICAN NATIONALISM.
PROFESSOR COMMAGER. 3 credit hrs.
(Same course as History 71.) *Elective for Juniors. First semester. (Omitted 1960-61.)*
72. SEMINAR IN AMERICAN CIVILIZATION.
MR. RAPSON. 4 credit hrs.
A study of selected topics in American Civilization including problems of methodology in the various disciplines within the American Studies program. One two-hour seminar weekly. *Elective for Seniors with the consent of the instructor. Second Semester.*
73. CONFERENCE COURSE IN AMERICAN INTELLECTUAL HISTORY.
PROFESSOR COMMAGER. 4 credit hrs.
(Same course as History 73.) *Elective for Juniors. First semester. Limited to 15 students. (Omitted 1960-61.)*
74. CONFERENCE COURSE IN AMERICAN INTELLECTUAL HISTORY.
PROFESSOR COMMAGER. 4 credit hrs.
(Same course as History 74.) *Elective for Juniors. Limited to 15 students. Second semester. (Omitted 1960-61.)*
79. SEMINAR IN AMERICAN CIVILIZATION. 6 credit hrs.
PROFESSORS MARX and HAWKINS.
Honors work in American civilization. Limited to fifteen students *Elective for Seniors with the consent of the instructor. First semester.*

80. HONORS.

6 credit hrs.

*Elective for Seniors. Second semester.**Anthropology*

41. CULTURAL ANTHROPOLOGY.

3 credit hrs.

A seminar dealing with the evolution of cultures from neolithic to modern times in Europe, India and China. Some of the classics of anthropological literature are studied. Individual projects are encouraged dealing with the dynamics of culture change in modern times. *Elective for Juniors. Limited to 12 students. First semester. (Omitted 1960-61.)*

Astronomy

Associate Professors LINNELL and YOSS;

Assistant Professors HOWARD, KOCH, and OLSON.

A joint Astronomy Department provides instruction at Amherst, Mt. Holyoke College, Smith College and the University of Massachusetts. Introductory courses are taught separately at the four institutions; advanced courses are taught jointly.

ASTFC indicates courses offered by the Four College Astronomy Department. These courses are listed in the catalogs of all four institutions.

Two alternative programs are available leading to a degree in astronomy. One is the honors program, designed to meet the needs of the student who wishes to prepare for graduate work in astronomy or astrophysics, or who wishes a combined honors program with mathematics or physics. The other is the departmental major, for the student who wishes to study astronomy largely for its cultural value, but who does not plan graduate study.

The facilities of all four institutions are available for thesis work. Should the needs of the thesis project so dictate, the department may arrange to obtain special materials from other observatories.

Honors: By the end of his sophomore year, the student should have completed Astronomy 22, Physics 24, and Mathematics 3. To arrange the balance of his undergraduate program, the student should consult with the department.

Major: This program requires less extensive training in physics and mathematics. A student interested in an astronomy major should choose his electives in consultation with the department.

22S. (ASTFC 21) DESCRIPTIVE ASTRONOMY.

4 credit hrs.

Professors LINNELL, KOCH.

Four topics of general scientific and philosophical interest will be considered. They are: (1) Time, (2) The Origin of the Solar System, (3) The

Exploration of our Galaxy, (4) Cosmology. The course is relatively non-mathematical in character.

Part of the laboratory work will involve observing with the 18 inch refractor.

Four hours classroom and one laboratory period per week.

Elective for Sophomores. First semester.

22. (ASTFC 22) DESCRIPTIVE ASTRONOMY. 4 credit hrs.

Professors LINNELL, KOCH.

Same course as 22S. *Elective for Sophomores. Second semester.*

24. (ASTFC 24) DEVELOPMENT OF ASTRONOMY. 3 credit hrs.

Professor HOWARD.

The progress of astronomy through the work of great men. The development of important ideas in the field from ancient to modern times. Three hours of classroom work per week. Requisite: Astronomy 22. *Elective for Sophomores. Second semester.*

University—M, W 1:45–3:00.

31. (ASTFC 31) STATISTICAL ASTRONOMY. Professor YOSS. 3 credit hrs.

Stellar motions as derived from trigonometric, spectroscopic, and statistical parallaxes, proper motions, and radial velocities. Stellar luminosity functions, and related topics. Three hours of classroom work per week. Requisite: Science 1, 2; Astronomy 22. *Elective for Juniors. First semester.*

Mt Holyoke—M, W 3:30–4:45, Observatory.

32. (ASTFC 32) GALACTIC STRUCTURE. Professor YOSS. 3 credit hrs.

Properties of the galactic system revealed by star clusters, the general distribution of stellar types, and the interstellar medium. Kinematics and dynamics of galactic motion. Recent results from the field of radio astronomy. Three hours of classroom work per week. Requisite: Science 1, 2; Astronomy 22. *Elective for Juniors. Second semester.*

Mt. Holyoke—M, W 3:30– 4:45, Observatory.

33. (ASTFC 33) CELESTIAL MECHANICS. Professor KOCH. 3 credit hrs.

Development of the two body problem and the restricted three body problem as applied to the solar system and stellar systems. Three hours of classroom work per week. Requisite: Astronomy 22, Physics 24. *Elective for Juniors, First semester.*

Amherst—M, W 1:45–3:00, Morgan.

34. (ASTFC 34) DOUBLE STARS. Professor KOCH. 3 credit hrs.

Analysis of the orbits of double stars and discussion of their physical characteristics. Three hours of class room work per week. Requisites: Astronomy 22, Physics 24. *Elective for Juniors. Second semester.*

Smith—M, W 1:45–3:00.

39. (ASTFC 39) LABORATORY ASTRONOMY. 3 credit hrs.
Professor OLSON.

Study and development of observing procedures. Analysis of astronomical observations. One classroom hour, four laboratory hours per week. Requisites: Science 1, 2; Astronomy 22. *Elective for Juniors. First semester.* Amherst—T 1:45-4:45, Th 7:30-9:30, Morgan.

41. (ASTFC 41) ASTROPHYSICS I. Professor HOWARD. 3 credit hrs.

Introduction to the theory of atomic spectra as applied to the analysis of stellar atmospheres. Transfer of radiation, determination of temperatures, pressures, and abundances. Three hours of classroom work per week. Requisite: Physics 24. *Elective for Juniors. First semester.* University—T, Th 1:45-3:00.

42. (ASTFC 42) ASTROPHYSICS II. Professor LINNELL. 3 credit hrs.

Gas laws and nuclear reactions as applied to the structure of stellar interiors. Evolution of stars. Three classroom hours per week. Requisite: Physics 24. *Elective for Juniors. Second semester.* Amherst—T, Th 1:45-3:00. Morgan.

- 79-80. CONFERENCE COURSES. THE DEPARTMENT: 6 credit hrs.

Required of majors and honors students. *Elective for Seniors. First and second semesters.*

Biology

Professors KIDDER, PLOUGH (emeritus), SCHOTTÉ, ‡ and WOOD; ‡ Associate Professors YOST and HEXTER; Assistant Professor Brower; Mr. LEAD-BETTER.

Note: A major in biology will consist of at least 24 semester hours in biology together with any 8 semester hours in chemistry. Under certain conditions these specific requirements may be modified with the approval of the department. Any one of the sophomore science courses (Science 22, 23 or 23S) counts as 4 semester hours of biology toward a major.

A chemistry-biology major requires 16 semester hours in each of the departments and must include Chemistry 43-44. Science 21 and Science 22 may be counted as 4 semester hours in chemistry and biology respectively, and Science 23 or 23S counts as 4 semester hours in biology.

A psychology-biology major requires at least 16 semester hours in each of the departments. Science 22, 23 or 23S counts as 4 semester hours in biology toward this major.

Honors work in biology is intended to offer an introduction to the purposes and methods of biological research. It is an excellent preparation for

‡ Absent on leave second semester.

those students who wish to become professional scientists or who wish to acquire first-hand knowledge of the methods of modern science.

Candidates for the degree with honors in biology must have completed by the beginning of the senior year a minimum of 16 semester hours in biology; sophomore courses may be counted. Honors candidates must elect Biology 79, 80 and complete by the end of senior year a minimum of 30 semester hours in biology.

The work for honors in biology consists of two main activities: (a) participation in a general and in a specialized seminar course in which the candidate reports on papers from current scientific periodicals; (b) an original investigation under the direction of some member of the staff.

In spring of his senior year the candidate takes a comprehensive examination covering the whole field of biology. He also writes a thesis presenting the results of his research to the whole Department.

Recommendations for the various grades of honors will be made on the basis of the reports, the comprehensive examination, and the value of the original investigation.

22. Same Course as Science 22. 4 credit hrs.

23, 23S. Same Course as Science 23, 23S. 4 credit hrs.

May be elected as a 3 hour course without laboratory by juniors and seniors with the approval of the department.

25. ECOLOGY. PROFESSOR BROWER 4 credit hrs.

A study of the interrelations of living organisms and their environment. The natural regulation of animal numbers, problems of populations, natural selection, and the origin and distribution of species will be discussed from an experimental approach. Three hours classroom and four hours laboratory or field work per week. Requisite: one semester in biology or the consent of the instructor. *Elective for sophomores. First semester.*

26. COMPARATIVE ZOOLOGY. PROFESSOR BROWER 4 credit hrs.

A comparative study of adaptation, behavior, and physiology in the animal kingdom. Problems of respiration, feeding, protection, sensory mechanisms, reproduction, and principles of behavior will be discussed. Three hours of classroom and four hours of laboratory or field work per week. *Elective for sophomores. Second semester.*

41. COMPARATIVE ANATOMY. PROFESSOR WOOD. 4 credit hrs.

A study of the anatomy of vertebrates and a review of vertebrate evolution. Three hours classroom and four hours laboratory work per week. Requisite: One semester of biology. *Elective for Juniors. First semester.*

42. BOTANY. PROFESSOR YOST 4 credit hrs.

The relation of the study of plants to certain fundamental problems in biology. Selected topics covered are the ultra-structure of cells, photosyn-

thesis, water transport, internal and environmental control of growth and development and evolution. Three hours of classroom and four hours of laboratory per week. Requisite: one semester each of biology and chemistry. *Elective for juniors (and sophomores with the consent of the instructor). Second semester.*

43. EMBRYOLOGY. PROFESSOR SCHOTTÉ.

4 credit hrs.

A description of developmental processes in the vertebrates, with an introduction to the physiology of development. Four hours classroom and two hours laboratory work per week. Requisite: One semester of biology. *Elective for Juniors. First semester.*

44. GENETICS. PROFESSOR HEXTER.

4 credit hrs.

The facts of heredity, basic and advanced. Three hours of classroom and four hours of laboratory work per week. Requisite: one semester of biology. *Elective for juniors (or sophomores with the consent of the instructor). Second semester.*

46. GENERAL HISTOLOGY. PROFESSOR SCHOTTÉ.

4 credit hrs.

A study of cells and of cellular differentiation with special emphasis upon the embryonic aspects of the main cell types and their progressive modifications into specialized tissues as function develops during ontogeny. The laboratory exercises deal, in addition to elementary cytology and organology, with the fundamental methods of histological techniques. Three hours classroom and one laboratory session a week. Requisite. One semester of biology. *Elective for Juniors. Second semester in alternate years. (Omitted 1960-61.)*

48. EXPERIMENTAL MORPHOLOGY. PROFESSOR SCHOTTÉ.

4 credit hrs.

An experimental analysis of the problems of differentiation of form and structure, including the physiology of embryonic development and the role of hormones in growth, in morphogenesis and in regeneration. Three hours classroom and four hours laboratory per week. Requisite: One semester in Biology. *Elective for Juniors. Second semester. (Omitted 1960-61.)*

51. BIOCHEMISTRY. PROFESSOR KIDDER.

4 credit hrs.

A study of the fundamental chemical processes of living matter. Three hours classroom and four hours laboratory work per week. Requisite: One semester of biology and organic chemistry (which may be taken concurrently). *Elective for Juniors. First semester.*

53. CELLULAR PHYSIOLOGY. PROFESSOR YOST.

4 credit hrs.

A study of cellular function in relation to structure, with special emphasis on surfaces, cellular energetics, and the reactions of macro-molecules. Three hours classroom and four hours laboratory work per week. Requisite: one semester each of biology and chemistry. *Elective for Juniors. First semester.*

54. BACTERIOLOGY. MR. LEADBETTER.

4 credit hrs.

A study of the bacteria, yeasts and molds, their physiological activities and genetic relationships. Three hours classroom and four hours laboratory work per week. Requisite: Two semesters in biology and one course in chemistry. *Elective for Juniors. Second semester.*

55. VERTEBRATE PALEONTOLOGY. PROFESSOR WOOD.

4 credit hrs.

The evolution of vertebrates as shown by the study of fossils, and the relationship of environment to evolution. Three hours classroom and four hours laboratory work per week. (Same course as Geology 55.) Requisite: One semester in Biology or Geology 22. *Elective for Juniors. First semester.*

71. BIOLOGY OF VIRUSES. MR. LEADBETTER.

4 credit hrs.

A classroom and seminar review of some recent studies of viruses, with special reference to the mode of virus multiplication. Three hours of classroom and four hours of laboratory work per week. Requisite: two semester courses in biology. *Elective for seniors with consent of the instructor. First semester.*

79, 80. BIOLOGY HONORS. The Staff.

4 credit hrs. first semester

6 credit hrs. second semester

All honors students will take this course. The work consists of a combined seminar, specialized seminars, and individual research. Students will elect one of the following specialized seminar courses, with the approval of the department: Biochemistry and Microbiology, Evolution, Experimental Morphology, Genetics, and Radiation Biology. The course is designed for honors candidates, but is open to other advanced students with the consent of the Department. Requisite: Four semester courses in biology. *Elective for seniors. First and second semesters.*

Biophysics

ADVISORY COMMITTEE: PROFESSOR BENSON; ASSOCIATE PROFESSOR YOST,
ASSISTANT PROFESSOR KROPP.

A student may receive the A.B. degree from Amherst with an inter-departmental major in biophysics. This program is designed for a few capable students who wish the breadth of experience this program provides or who wish to prepare for graduate study in this field. The course of study is organized from the course offerings of the various science departments whose disciplines bear on the active work in the area of biophysics. Only the honors course is offered as a course in biophysics.

By the end of his sophomore year, the student should have completed Biology 22, Chemistry 21 and 24, Mathematics 3, and Physics 24 or their equivalents. During his junior and senior year, his elections should include

Biology 44 and 53, Chemistry 41, 42, 43 and 44, Physics 51, 52, and 53. (In any case, he should consult with a member of the advisory committee as early in his academic career as possible to determine the proper course elections.) In the senior year, he will enroll in Biophysics 79-80 and attend the seminar. He will choose his thesis advisor from those faculty members, in the various science departments, who are interested in this program and willing to direct a thesis in this area. The comprehensive examination will be administered by a committee made up of representatives from the science departments involved in the program.

79-80. SENIOR HONORS COURSE.

2-6 credit hrs. per semester.

Minimum total 8 credit hours.

The work consists of a seminar in the problems of current interest in biophysics and the preparation of a thesis based on an individual investigation under the direction of a faculty member.

Chemistry

Professors BEEBE and WHITNEY;*

Assistant Professors KROFF and SILVER;

Messrs. RICHARDS and LANGFORD

A student considering a major in chemistry should seek the advice of a member of the Department as early as possible, preferably during his freshman year. This will help the student elect a program which best fits his interests and abilities and which makes full use of his previous preparation. Different programs can be arranged for students considering careers in chemistry, biochemistry, biophysical chemistry, medical research, medicine, and secondary school science teaching.

The minimum requirements for a major in chemistry are Science 21, Chemistry 24, 41, 42, 43, 44, Mathematics 3 and Physics 23 or 24. Chemistry 25 plus a more advanced course may be substituted for Science 21 and Chemistry 24.

A candidate for the degree with honors must also elect as a minimum Chemistry 79, 80 and one of the following: Chemistry 51, 71, or 73. Normally an honors candidate will complete the courses required of a major by the end of the junior year. It is highly desirable that an honors candidate, especially if his field of interest is physical chemistry, elect Physics 24, and also one or more additional semesters of physics and Mathematics 31 and 32. Honors candidates will attend the chemistry seminar during their junior and senior years, participating in it actively in the senior year. At this seminar, discussions of topics of current interest will be conducted by staff members, visitors and students.

* Absent on leave 1960-61.

In the senior year an individual thesis problem will be selected by the honors candidate in conference with some member of the Department. Current areas of research in the department are: organic reaction mechanisms, biophysical chemistry, surface chemistry, and gas phase reaction kinetics. Each candidate will submit a thesis based upon his research work. Recommendations for the various levels of honors will be made by the Department on the basis of the thesis work and the comprehensive examination.

For a student planning graduate work in chemistry, honors, Chemistry 26 and a reading knowledge of German and/or Russian are desirable. (A student may satisfy the minimum standards of the American Chemical Society by taking an honors program including Chemistry 26 and by obtaining a reading knowledge of German.)

Notes:

A chemistry-biology major requires sixteen semester hours in each of the two departments, and must include Chemistry 43-44. Science 21 and Science 22 may be counted as semester courses in chemistry and biology respectively.

21. Same Course as Science 21. 4 credit hrs.
Professors BEEBE and KROPF and Mr. LANGFORD.

24. INORGANIC AND ANALYTICAL CHEMISTRY. 4 credit hrs.
Professor BEEBE and Mr. RICHARDS.

A study of the chemistry of inorganic substances with special emphasis on ionic equilibria as met in chemical analysis. Three hours classroom and four hours laboratory work per week. Requisite. Science 21. *Elective for Sophomores. Second semester.*

25. GENERAL AND ANALYTICAL CHEMISTRY. Mr. RICHARDS. 4 credit hrs.

A study of chemical substances, their structure, their properties and their reactions. This course is intended as a one-semester preparation for Chemistry 41 and 43. Students who receive credit for Chemistry 25 may not receive credit for either Science 21 or Chemistry 24. Three hours classroom and four hours laboratory work per week. *Elective, with consent of instructor, for Sophomores who are especially well qualified. First semester.*

26. QUANTITATIVE ANALYSIS. Mr. LANGFORD. 4 credit hrs.

The quantitative analysis of inorganic substances with emphasis on volumetric methods. Principles of elementary physical chemistry as applied to the isolation and determination of inorganic ions will be considered. Three hours classroom and four hours laboratory work per week.

Requisite: Chemistry 24 or 25. *Elective for Sophomores. Second semester.*

41. PHYSICAL CHEMISTRY. PROFESSOR KROFF. 4 credit hrs.

A study of chemical thermodynamics, kinetics and atomic and molecular structure with application to systems of interest to chemists, physicists and biologists. Three hours classroom and four hours laboratory work per week. Requisite: Chemistry 24 or 25, Mathematics 3, and Physics 23 or 24, the latter being recommended for those going on in physical chemistry. *Elective for Juniors with the consent of the instructor. First semester.*

42. PHYSICAL CHEMISTRY. PROFESSOR KROFF. 4 credit hrs.

A continuation of Chemistry 41. Requisite: Chemistry 41. *Elective for Juniors. Second semester.*

43. ORGANIC CHEMISTRY. 4 credit hrs.
PROFESSOR SILVER.

General theory of organic chemistry, preparation of typical organic compounds, and introduction to organic qualitative analysis. The chemistry of the most important functional groups only is studied in this course. Three hours classroom and four hours laboratory work per week. Requisite: Chemistry 24 or 25. *Elective for Juniors. First semester.*

44. ORGANIC CHEMISTRY. 4 credit hrs.
PROFESSOR SILVER.

A continuation of Chemistry 43. Requisite: Chemistry 43. *Elective for Juniors. Second semester.*

51. ADVANCED INORGANIC CHEMISTRY. 4 credit hrs.

The descriptive chemistry of selected elements, the structures of molecules and the relationships between the observed properties and the electron configurations of the atoms involved will be discussed. Methods of preparing and of determining the physical and chemical properties of inorganic substances will be illustrated in the laboratory. Three hours of classroom and four hours of laboratory work per week.

Requisite: Chemistry 26. *Elective for Juniors. First semester. (Omitted 1960-61.)*

71S. ADVANCED PHYSICAL CHEMISTRY. MR. RICHARDS. 3 credit hrs.

A discussion of selected topics in physical chemistry from the fields of quantum mechanics and statistical mechanics. Three class hours per week. Requisite: Chemistry 42. *Elective for Seniors. Second semester.*

73. QUALITATIVE ORGANIC CHEMISTRY. PROFESSOR SILVER. 4 credit hrs.

A continuation of the study of organic chemistry, with emphasis on the laboratory identification and characterization of organic compounds. Two hours classroom and six hours laboratory work per week. Requisite: Chemistry 44. *Elective for Seniors, with the consent of the instructor. First semester.*

79. HONORS COURSE. The Department. *2-6 credit hrs.*
Elective for honors candidates, and for others with the consent of the Department.
80. HONORS COURSE. The Department. *6 credit hrs.*
Elective for honors candidates, and for others with the consent of the Department.

Classics

Professor MOORE;

Associate Professor GOULD; Messrs. DOLIN and MARSHALL.

Note: All courses offered by the Department which are numbered 4 or higher may be used to satisfy the sophomore humanities requirement.

All courses offered by the Department may be counted toward a major except those numbered 1 and 2. A major may be entirely in Greek or entirely in Latin and will then consist of eight semester courses, two of which may be in related fields. A major in Classics will consist of eight semester courses in the Classics, which may be divided in any proportion between Greek and Latin, except that not less than two may be taken in either language.

Honors may be awarded to those candidates who major in Greek or in Latin or in Classics and who take eight semester courses in the Department. Every honors candidate must include in his program those courses numbered 41, 42, 79 and 80 in either Greek or Latin. He must submit a long essay (6000-7000 words) on some topic connected with his honors work and approved by the Department. He must have read extensively in Greek or Latin literature or both. He must also read independently, i.e., not as a part of the work in a course, approximately 50 pages of some Greek or Latin text selected with the approval of the Department. Early in May he will be given a written examination covering: a) his honors work; b) his reading in the Classical literatures. The emphasis in this examination will be on the literary and historical interpretation of major authors; there will be considerable latitude of choice between various optional questions. The award of honors will be determined by the quality of the candidate's work in his courses, of his essay, and of his performance in the general examination.

The Department will cooperate with other departments in giving combined majors with honors.

The statement of requisites given below is intended only to indicate the degree of preparation necessary for each course, and exceptions will be made in special cases.

23. CLASSICAL CIVILIZATION. Professor MOORE. *3 credit hrs.*

(Same course as History 23.) A study of the civilization of Greece from Homer to Alexander and its contribution to the civilization of the West.

Readings from Greek literature will be included among the materials of the course. No knowledge of the ancient languages is required. Three hours of classroom work per week. *Elective for Sophomores. First semester.*

24. CLASSICAL CIVILIZATION. Mr. MARSHALL.

3 credit hrs.

(Same course as History 24.) A study of Roman civilization and its contribution to the civilization of the West. Readings from Latin literature will be included among the materials of the course. No knowledge of the ancient languages is required. Three hours of classroom work per week. *Elective for Sophomores. Second semester.*

53. PLATO AND ARISTOTLE. Professor GOULD.

4 credit hrs.

(Same course as Philosophy 53.) Several major works by each of these philosophers will be read in their entirety and discussed in class. The chief aim of the course will be to achieve a comprehension of the major philosophical positions of these writers, though some attention will also be paid to the historical development, the antecedents, and the subsequent influence of their ideas. All readings will be in English. Three class hours per week. *Elective for Juniors. Limited to twenty-five students. First semester.*

Greek

1. INTRODUCTION TO THE GREEK LANGUAGE.

4 credit hrs.

Mr. DOLIN.

Five class meetings per week. *Elective for Freshmen. First semester.*

1S. INTRODUCTION TO THE GREEK LANGUAGE. Professor GOULD.

4 credit hrs.

Elective for Freshmen. Second semester. This course may be taken only with the consent of the Department. Students interested should consult a representative of the Department.

2. INTRODUCTION TO GREEK LITERATURE.

4 credit hrs.

Mr. MARSHALL.

Requisite: Greek 1 or its equivalent. Five class meetings per week. *Elective for Freshmen. Second semester.*

3. THE ILIAD. Mr. DOLIN.

4 credit hrs.

Requisite: Greek 1 and 2 or their equivalent. Five class meetings per week. *Elective for Freshmen. First semester.*

4. THE ODYSSEY; THE LYRIC POETS. Professor GOULD.

4 credit hrs.

Requisite: Greek 3 or its equivalent. Three class meetings per week. *Elective for Freshmen; quasi seminar course, limited to twenty-five students. Second semester.*

5. AESCHYLUS' PROMETHEUS. THE LYRIC POETS. 4 credit hrs.
Professor GOULD.

Requisite: Greek 3 or its equivalent. Three class meetings per week. *Elective for Freshmen; quasi seminar course, limited to twenty-five students. First semester.*

6. GREEK TRAGEDY. Professor MOORE. 4 credit hrs.

Requisite: Greek 3 or its equivalent. Three class meetings per week. *Elective for Freshmen; quasi seminar course, limited to twenty-five students. Second semester.*

21. READINGS IN GREEK LITERATURE OF THE FIFTH CENTURY. 4 credit hrs.
Professor GOULD.

Requisite: Greek 5 or 6. *Elective for Sophomores; quasi seminar course, limited to twenty-five students. First semester.*

22. READINGS IN GREEK LITERATURE OF THE FIFTH CENTURY. 4 credit hrs.
Professor MOORE.

Requisite: Greek 5 or 6. Three class meetings per week. *Elective for Sophomores; quasi seminar course, limited to twenty-five students. Second semester.*

- 41, 42. ADVANCED READINGS IN GREEK LITERATURE. 4 credit hrs.
Professors GOULD, MOORE.

The authors read in these courses vary from year to year, the selection being made according to the interests and needs of the students. Examples: Plato's Republic and Aristotle's Ethics; Pindar, Bacchylides, and Theocritus; Demosthenes and Thucydides; the Greek novelists. Requisite: Greek 6. *Seminar course; elective for Juniors. First and second semester.*

- 79, 80. SENIOR HONORS COURSE. 6 credit hrs.

Latin

1. INTRODUCTORY COURSE. Mr. MARSHALL. 4 credit hrs.

A rapid introduction to the Latin language, leading directly into Latin 4. Five class meetings per week. *Elective for Freshmen. First semester. This course may be taken only with the consent of the Department. Students interested should consult a representative of the Department.*

- 1S. INTRODUCTORY COURSE. 4 credit hrs.

A rapid introduction to the Latin language. *Elective for Freshmen. Second semester. This course may be taken only with the consent of the Department. Students interested should consult a representative of the Department.*

3. INTERMEDIATE COURSE. PROFESSOR MOORE.

4 credit hrs.

Review of Latin grammar; selections from Latin prose and poetry. Requisite: Latin 1-2, or two or three entrance units in Latin. Five class meetings per week. *Elective for Freshmen. First semester.*

4. MEDIAEVAL LATIN. MR. DOLIN.

4 credit hrs.

Readings in the literature of the Latin Middle Ages. Requisite: Latin 3, or three entrance units in Latin. Three class meetings per week. Quasi seminar course. *Elective for Freshmen. Limited to twenty-five students. Second semester.*

5. CICERO'S PRO CAELIO; AND SELECTIONS FROM CATULLUS.

MR. MARSHALL.

4 credit hrs.

Attention will be given to Cicero and Catullus as literary artists, and as interpreters of the society of the late Republic. Requisite: Latin 4, or four entrance units in Latin. Three class meetings per week. *Elective for Freshmen; quasi seminar course, limited to twenty-five students. First semester.*

6. HORACE. PROFESSOR GOULD.

4 credit hrs.

Requisite: Latin 4 or 5, or four entrance units in Latin. Three class meetings per week. *Elective for Freshmen; quasi seminar course, limited to twenty-five students. Second semester.*

21. LUCRETIUS. PROFESSOR HUMPHRIES and MR. MARSHALL.

4 credit hrs.

A large part of the *De rerum natura* will be read. Consideration will be given to the philosophical tradition and to the development of Latin poetic style. Requisite: Latin 5 or 6. Three class meetings per week. *Elective for Sophomores; quasi seminar course, limited to twenty-five students. First semester. (Latin 21 and 41 will be combined in 1960. Professor Humphries will hold a seminar on Ovid. Students who have already studied Ovid may consult Mr. Marshall about arranging for independent work.)*

22. TACITUS. MR. MARSHALL.

3 credit hrs.

Requisite: Latin 5, 6, or 21. Three class meetings per week. *Elective for Sophomores. Second semester.*

27. LATIN POETRY: LYRIC AND PASTORAL.

2 credit hrs.

PROFESSOR MOORE and MR. MARSHALL.

(Same course as English 27.)

Intended for students of literature who wish to acquire some knowledge of the tradition of Latin poetry. Poems of Catullus, Horace, and Virgil will be read and interpreted from a literary point of view, and attention

will be paid to similar poems in English. Students must have some knowledge of Latin and some familiarity with poetry. Two hours of classroom work per week. *Elective for Sophomores. First semester.*

28. VIRGIL'S AENEID. Mr. DOLIN.

4 credit hrs.

At least three books will be read in Latin with close attention to the text, and the whole poem will be studied in translation. The emphasis of the course will be on Virgil's poem as a work of literature and as an expression of classical civilization. Requisite: Latin 5 or 27 or the consent of the instructor. Three regular class meetings per week; a fourth meeting for students who may need special help with the language. Quasi seminar course. *Elective for Sophomores. Limited to twenty-five students. Second semester.*

41, 42. ADVANCED READINGS IN LATIN LITERATURE.

4 credit hrs.

Professor HUMPHRIES and Mr. MARSHALL.

The authors read in these courses vary from year to year, each course giving a survey of one field of Latin literature: e.g., Roman Satire, Roman Philosophy, Late Latin, Roman Drama, etc. Requisite: Latin 21 or 22. Three class meetings per week. *Elective for Juniors; seminar course. First and second semesters. (Latin 41 for 1960 is described above under Latin 21; Latin 42 will be offered by Mr. Marshall in combination with Latin 22.)*

79, 80. SENIOR HONORS COURSE.

6 credit hrs.

Dramatic Arts

Associate Professors BOUGHTON, MCGOUN and ROGERS.

Note. Majors: Students majoring in Dramatic Arts must complete Dramatic Arts 23, 25, 26, 43, 44, and either 71, 72 or 79, 80.

Courses in other departments recommended for major students: English 25, 26, 41; Fine Arts 23, 24, 25; French 29, 43, 44; Music 46.

Honors: Honors projects may be developed in consultation with members of the department.

Dramatics 23 or 23S may be used in satisfaction of the sophomore humanities requirement and will be prerequisite for all other courses in the department.

23. INTRODUCTION TO THE THEATER ARTS.

3 credit hrs.

Professors BOUGHTON, MCGOUN and ROGERS.

A consideration of the materials of creative expression in drama. An investigation into the arts of the theater. Three hours of classroom work per week. *Elective for Sophomores. First semester.*

23S. INTRODUCTION TO THE THEATER ARTS.

(Same as Dramatic Arts 23.) *Second semester.*

3 credit hrs.

25. BACKGROUNDS OF THE MODERN DRAMA.

Professors BOUGHTON and MCGOUN.

3 credit hrs

The origins and development of the drama from the Greeks to the 18th century. Requisite: Dramatic Arts 23 or 23S. Three hours of classroom work per week. *Elective for sophomores. First semester.*

26. MODERN DRAMA. Professors BOUGHTON and MCGOUN. 3 credit hrs.

18th century to the present. Requisite. Dramatic Arts 23 or 23S. Three hours of classroom work per week. *Elective for Sophomores. Second semester.*

43. PRINCIPLES OF DRAMATIC PRODUCTION.

Professors BOUGHTON, MCGOUN, and ROGERS.

3 credit hrs.

A study of directing, acting, scene design and stage lighting considered as instruments of dramatic interpretation. Requisite: Dramatic Arts 23 or 23S. Three hours classroom work per week. *Elective for Juniors. First semester.*

44. PRINCIPLES OF DRAMATIC PRODUCTION.

Professors BOUGHTON, MCGOUN and ROGERS.

3 credit hrs.

Continuation of Dramatic Arts 43. Requisite: Dramatic Arts 43. Three hours of classroom work per week. *Elective for Juniors. Second semester.*

71. ADVANCED STUDY. The Department.

4 credit hrs.

Advanced work in one of the following fields of Dramatic Arts: Directing, Scene Design, Stage Lighting. Classroom meetings, reports and conferences. Limited to 15 students. *Elective for seniors with the consent of the department. First semester.*

72. ADVANCED STUDY. The Department.

4 credit hrs.

Continuation of Dramatic Arts 71. *Elective for seniors with the consent of the department. Second semester.*

79. CONFERENCE COURSE. The Department.

4-8 credit hrs.

Conference course for students majoring in Dramatic Arts. Selected topics of study. *Elective for Seniors with the consent of the Department. Required of candidates for honors. First semester.*

80. CONFERENCE COURSE. The Department.

4-8 credit hrs.

Continuation of Dramatic Arts. 79. *Elective for Seniors with the consent of the Department. Required of candidates for honors. Second semester.*

Economics

Professors NELSON, ROSS, TAYLOR, THORP,[†] and WARNE;
 Associate Professor COLLERY
 Assistant Professors NEUBERGER and ORR.

The following courses are required for a major in Economics:

Rite Students: Economics 21, 43, (66 or 70), 73, 74.

Honor Students: Economics 21, 43, (66 or 70), 79, 80.

Each candidate for a degree in Economics will be examined by the Department on his work in Economics, and on the contents of his thesis, at the close of his senior year.

18. INTRODUCTION TO THE ANALYSIS OF ECONOMIC PROBLEMS. *1 credit hr.*
 Mr. ORR.

A course designed to acquaint the student with the major approaches of economists to questions of economic policy and analysis. Primarily offered for those who will be unable to enroll in Economics 21.

Elective for Seniors. Second semester.

21. AN INTRODUCTION TO ECONOMICS. *4 credit hrs.*
 Professors NELSON or COLLERY, NEUBERGER, and ORR.

A study of the central functions and problems of an economic system, of the principles and practices of our own economy, and of other forms of economic organizations and control. One lecture and three hours of discussion each week. Prerequisite or corequisite for all other courses in economics, except Economics 18. *Elective for Sophomores. First semester.*

- 21S. AN INTRODUCTION TO ECONOMICS. *4 credit hrs.*
 Professors COLLERY or NELSON, NEUBERGER, and ORR.

Same description as above. *Elective for Freshmen. Second semester.*

24. THE AMERICAN ECONOMY. *4 credit hrs.*
 Professor NELSON.

An examination of the structure and operation of the economic system of the United States, with particular emphasis upon the different types of markets and industrial structures, the role and behavior of the price mechanism, the evolution of public policies, and selected current economic issues. Two lectures and two hours of discussion each week. Requisite: Economics 21. *Elective for Sophomores. Second semester.*

41. COMPARATIVE ECONOMIC SYSTEMS. *4 credit hrs.*
 Professor WARNE.

A study and comparison of the principal types of economic systems with

[†] Absent on leave first semester.

special emphasis upon the position of labor in each. Requisite or corequisite: Economics 21. Four lectures each week. *Elective for Sophomores. First semester.*

42. LABOR ECONOMICS.

4 credit hrs.

Professor WARNE.

A survey of the position of labor in our modern economy and of the development and status of labor legislation and social security measures. Three lectures and one hour of discussion each week. Requisite or corequisite: Economics 21. *Elective for Sophomores. Second semester.*

43. MONEY, BANKING, AND NATIONAL INCOME.

4 credit hrs.

Professors COLLERY and NEUBERGER.

A study of money and finance and their relation to the functioning of an economic system. An introduction to the theory of income determination with an indication of the role that money and finance play in the determination of employment, production and prices. Requisite: Economics 21 or the permission of the Department. *Elective for Sophomores. First semester.*

44. PUBLIC FINANCE AND BUSINESS CYCLES.

4 credit hrs.

Professor THORP.

An analysis of the nature and causes of business fluctuations and of their economic and social effects. A study of taxing, spending and debt policies of governmental units and their relationship to both business fluctuations and long-run behavior of the economic system. Requisite: Economics 43. *Elective for Juniors. Second semester.*

45. ECONOMIC STATISTICS.

4 credit hrs.

Professor ROSS.

A study of the sources of quantitative economic data, with special emphasis on the application of statistical methods to economic problems. Three lectures and two hours of laboratory work each week. Requisite: Economics 21. *Elective for Juniors: limited to twenty-five students. First semester.*

46. ACCOUNTING.

4 credit hrs.

Section A — Professor ROSS.

A study of the principles of accounting as related to corporate finance, and elementary investment analysis. Extensive work with actual corporate material. Requisite: Economics 21. *Elective for Juniors: limited to 25 students. Second semester.*

Section B.

A study of the principles of accounting as related to economic analysis. Attention will be given to the use of accounts by persons and corporations and the application of accounting techniques to the study of national

wealth and income, balance of payments, input-output tables, and flow of funds. Requisite: Economics 21. *Elective for Juniors majoring in Economics. Second semester. (Omitted 1960-61.)*

51. MONOPOLY REGULATION.

3 or 4 credit hrs.

Professor NELSON.

The theory of monopoly pricing and of price discrimination; objectives and methods of public control of prices, profits, and service by public utilities and transportation agencies. Requisite: Economics 21. *Elective for Juniors. First semester.*

54. INTERNATIONAL ECONOMIC POLICY.

4 credit hrs.

Professor THORP.

An examination into the nature of commercial, monetary, investment, and other economic problems which appear when public or private interest extends across national boundary lines, and the principles and pressures which affect their solution, with particular reference to recent American experience. Three hours of classroom work per week. Requisite: Economics 21. *Elective for Juniors. Second Semester.*

55. INTRODUCTION TO MATHEMATICAL ECONOMICS AND ECONOMETRICS.

Professor ORR.

3 credit hrs.

An introduction to linear, nonlinear, continuous dynamic, and sequence models in economics; linear programming; the statistical Leontief system; simple and multivariate regression; multiple relations. Requisites: Economics 21 and one other economics course. *Elective for Juniors. First semester.*

63, 64. AMERICAN ECONOMIC HISTORY. Professor TAYLOR. 4 credit hrs.

A study of economic history of the U.S., with emphasis on historical aspects of economic development. The first semester will cover the period prior to the Civil War; the second will cover from the Civil War to date. Students may take *either* or *both* semesters. One two-hour seminar each week. Requisite: Economics 21. *Elective for Juniors; limited to fifteen students.*

66. PROBLEMS OF ECONOMIC POLICY.

4 credit hrs.

Professor WARNE.

A study of the process of formulating and executing economic policy in the United States, based upon an intensive examination of selected cases. Some emphasis will be placed upon the application of economic

analysis in policy determination. *Elective for non-majors with the consent of the Department. Second semester.*

70. THEORY OF PRICE. PROFESSOR COLLERY.

4 credit hrs.

An introduction to the theory of utility and demand; the nature of cost and the production function; diminishing returns and short-run cost curves; returns to scale and long-run cost curves; competitive pricing; the pricing of productive services; the theory of monopoly; the theory of oligopoly; cartels and unions; the distribution of income; general equilibrium. Requisite: Economics 21. *Elective for non-majors with the consent of the Department. Second semester.*

73. SENIOR RITE SEMINAR. HISTORY OF ECONOMIC THOUGHT. 4 credit hrs.
Professor NELSON.

An examination of the contributions to the development of economics made by such economists as Adam Smith, David Ricardo, Karl Marx, Alfred Marshall, and Lord Keynes. Special attention will be paid to the environmental influences on their intellectual development. *Required of senior rite majors in economics, may be elected by senior honors majors in economics who do not enroll in Economics 79; open to other students by permission of the department.*

74. SENIOR RITE SEMINAR. The Department.

6 credit hrs.

Preparation of a thesis on a topic approved by the department. *Required of all Seniors majoring in Economics who are not candidates for Honors. Second semester.*

79. ECONOMICS HONORS. PROFESSOR NEUBERGER.

4 credit hrs.

A study of the development of economic thought as exemplified in the writings of a few selected economists, e.g., Smith, Ricardo, Marx, and Keynes, with emphasis placed on the analytical content. In addition to this survey several special fields of economics will be treated, e.g., the operation of the market mechanism vs. planning, the role of the rate of interest in various systems, and problems in the field of welfare economics. *Required of all seniors majoring in Economics who are candidates for Honors. Elective for others with permission of the department. First semester.*

89. ECONOMICS HONORS. The Department.

8 credit hrs.

Preparation of a thesis on a topic approved by the department. *Second semester. Required of all seniors majoring in Economics who are candidates for Honors.*

Education

Professor KENNEDY; † Associate Professor GROSE and Assistant Professors DAVENPORT and HAWKINS.

36. THE HISTORY OF AMERICAN EDUCATION. 4 credit hrs.

Professor HAWKINS.

(Same course as History 36.) *Elective for Sophomores. Second semester.*

41S. PHILOSOPHY OF EDUCATION. Professor KENNEDY. 3 credit hrs.

(Same course as Philosophy 41S.) *Elective for Juniors. Second semester.*

(Omitted 1960-61.)

43. EDUCATIONAL PSYCHOLOGY. Professor GROSE. 3 credit hrs.

(Same course as Psychology 43.) Requisite: Psychology 21. *Elective for Juniors with consent of the instructor; limited to fifteen students. First semester.*

47. DEVELOPMENTAL PSYCHOLOGY. Professor DAVENPORT. 3 credit hrs.

(Same course as Psychology 47.) Requisite: Psychology 21. *Elective for Juniors. First semester.*

English

Professors BAIRD, BARBER,* CRAIG,* DEMOTT, HUMPHRIES, MARX, and McKEON; Visiting Professor ATHERTON; Assistant Professors HEATH, REVARD and SALE; Messrs. CAMERON, COLES, GUTTMAN, KENSETH and PRITCHARD.

Note: All English majors are required to elect English 21-22, English 63-64, and four other semester courses, exclusive of English 1-2, offered or approved by the English Department.

Candidates for honors in English are required to complete the following courses: English 21-22, English 25-26, English 49, English 63-64, English 70S, English 79-80. Beginning in 1961-62 senior candidates for honors should elect English 70S [3 credit hrs.], English 79 [3 credit hrs.], and in the second semester English 80 [6 credit hrs.].

English 21, 22, 25 or 26 may be taken in satisfaction of the sophomore humanities requirement.

1. COMPOSITION. 2 credit hrs.

Professors ATHERTON, BAIRD (Chairman), DEMOTT, HEATH, REVARD and SALE, and Messrs. CAMERON, COLES, GUTTMANN and PRITCHARD.

Three hours of classroom work per week. *Required for Freshmen. First semester.*

† Absent on leave first semester.

* Absent on leave 1960-61.

2. COMPOSITION. 2 credit hrs.
 Professors ATHERTON, BAIRD (Chairman), DEMOTT, HEATH, REVARD and SALE and Messrs. CAMERON, COLES, GUTTMANN and PRITCHARD.

Two hours of classroom work per week. Requisite: English 1. *Required for Freshmen. Second semester.*

21. INTRODUCTION TO LITERATURE. 3 credit hrs.
 Professors ATHERTON, BARBER, DEMOTT (Chairman), HEATH, SALE and Messrs. CAMERON, COLES, GUTTMANN and PRITCHARD.

The aim of this course is to teach critical reading of literature. The material read in any one year is limited to a small number of works of prose and poetry. Required for a major in English. Alternate course in Humanities Sequence. Three hours of classroom work per week. *Elective for Sophomores. First semester.*

22. INTRODUCTION TO LITERATURE. 3 credit hrs.
 Professors BAIRD, HEATH, REVARD and SALE, and Messrs. CAMERON, COLES, GUTTMANN and PRITCHARD (Chairman).

A continuation of English 21. Requisite: English 21. Required for a major in English. Alternate course in Humanities sequence. Three hours of classroom work per week. *Elective for Sophomores. Second semester.*

23. ADVANCED COMPOSITION. Professor HUMPHRIES. 4 credit hrs.

A course in disciplined writing, both prose and verse. Students are expected to work independently without specific assignments. Class discussions of manuscripts and frequent conferences with the instructor. One two-hour meeting per week. *Elective for Sophomores with the consent of the instructor; limited to fifteen students. First semester.*

24. ADVANCED COMPOSITION. Professor HUMPHRIES. 4 credit hrs.

A continuation of English 23. One two-hour meeting per week. *Elective for Sophomores with the consent of the instructor; limited to fifteen students. Second semester.*

25. SHAKESPEARE. Professor BAIRD. 3 credit hrs.

A reading of all the plays. Emphasis on Shakespeare's development as dramatist and poet. Requisite: A grade of B in a previous English course. Alternate course in Humanities Sequence. Three hours of classroom work per week. *Elective for Sophomores. First semester.*

26. SHAKESPEARE. Professor BAIRD. 3 credit hrs.

A continuation of English 25. Requisite: English 25. Three hours of classroom work per week. *Elective for Sophomores. Second semester.*

27. LATIN POETRY: LYRIC AND PASTORAL. Professor MOORE and Mr. MARSHALL. 2 credit hrs.

(Same course as Latin 27.) *Elective for Sophomores. First semester.*

- 41S. THE RENAISSANCE: THE SIXTEENTH CENTURY 4 credit hrs.
Professor SALE.

A study of Renaissance narrative, especially Spenser's *The Faerie Queene* and the major Elizabethan dramas. *Elective for Juniors. Second semester.*

42. THE RENAISSANCE: THE SEVENTEENTH CENTURY. 4 credit hrs.
Professor DEMOTT.

A study of the poetry of Milton and of the Metaphysical Poets in relation to some religious and philosophic assumptions of the seventeenth-century writer. Three meetings per week. *Elective for Juniors. Second semester.*

43. AMERICAN LITERATURE. Professor MARX, Messrs. GUTTMANN and KENSETH. 3 credit hrs.

A survey of American Literature from the seventeenth century to 1900 with emphasis on major figures. Three hours of classroom work per week. *Elective for Juniors. First semester.*

44. AMERICAN LITERATURE. Professor MARX, Messrs. GUTTMANN and KENSETH. 3 credit hrs.

A continuation of English 43. Three hours of classroom work per week. *Elective for Juniors. Second semester.*

45. READINGS IN THE ENGLISH NOVEL. 3 credit hrs.
Professor DEMOTT.

A study of representative works of the eighteenth and nineteenth centuries. *Elective for Juniors. First semester.*

49. CHAUCER. Professor REVARD. 4 credit hrs.

Chaucer's major works in the original. Four hours of classroom work per week. *Elective for Juniors, and for Sophomores who have a grade of "B" in English and who plan to become candidates for the degree with honors in English. Limited to twenty-five students. First semester.*

50. READINGS IN MEDIEVAL LITERATURE. 4 credit hrs.
Professor REVARD.

Literary forms in non-Chaucerian English Literature from the thirteenth to the sixteenth century. Major texts, to be read in the original, will include *Piers Plowman*, *Sir Gawain and the Green Knight*, selected miracle plays from the Towneley and York Cycles, secular and religious lyrics, and a number

of prose works including tracts, homilies, and narrative works. *Elective for Juniors. Second semester. Seminar course limited to ten students, admission with consent of the instructor.*

51. JOYCE. PROFESSOR BARBER. 4 credit hrs.

A study of the work of James Joyce in relation to the development of culture in the first part of the twentieth century. Three hours of classroom work per week, and one additional hour devoted to reading and discussion in small groups. *Elective for Juniors. First semester. (Omitted 1960-61).*

52. READINGS IN TWENTIETH CENTURY POETRY. 3 credit hrs.
MR. PRITCHARD.

A study of Yeats, Eliot, Frost and Stevens. Some attention will be given to contemporary poets. *Elective for Juniors. Second semester.*

53. LITERATURE AND SOCIETY, 1660-1740. 3 credit hrs.
PROFESSOR DEMOTT.

A study of the prose and poetry of the Restoration and earlier eighteenth century. Principal authors will be Dryden, Swift, and Pope; some attention will be paid to lesser figures. *Elective for Juniors. First semester. (Omitted 1960-61.)*

55. THE EUROPEAN NOVEL. 3 credit hrs.
PROFESSOR ATIERTON.

Readings in nineteenth and twentieth century English and Continental fiction. Among the authors to be read in 1960-61 will be Tolstoy, Turgenev, Stendahl, Malraux, Camus, Mann and Dickens. *Elective for Juniors. First semester.*

57. READINGS IN ROMANTIC POETRY. 3 credit hrs.
PROFESSOR HEATH.

A study of selected major poets from Blake to Byron, with attention to the relevance of biographical knowledge. One two-hour meeting per week. *Seminar course limited to 15 students. Elective for Juniors. First semester.*

62. READINGS IN MODERN FICTION. PROFESSOR ATIERTON. 3 credit hrs.

A study of some novels written in the twentieth century and a consideration of the novelist's position in modern society. Three hours of classroom work per week. *Elective for Juniors. Second semester.*

63. ENGLISH LITERARY HISTORY. 3 credit hrs.
PROFESSOR SALE.

The development of English literature from Chaucer to Dr. Johnson. Required for a major in English. *Elective for Juniors. First semester.*

64. ENGLISH LITERARY HISTORY.

3 credit hrs.

Professor HEATH.

The development of English literature from the late eighteenth century to the early twentieth. Requisite: English 63. Required for a major in English. *Elective for Juniors. Second semester.*

65. READINGS IN AMERICAN LITERATURE.

4 credit hrs.

Professor MARX.

A study of major American writers; the particular authors considered will vary from year to year. *First semester. Seminar Course limited to ten students, admission with the consent of the instructor.*

70S. AN INTRODUCTION TO LITERARY SCHOLARSHIP.

3 credit hrs.

A study of the characteristics of literary knowledge as defined in the theory and practice of selected major critics and scholars. One two-hour meeting per week. *Required for Junior Honors candidates in English. Others require permission of the instructor. First semester. (Omitted 1960-61).*

73. CREATIVE WRITING. Professor HUMPHRIES.

2 credit hrs.

Continuation of English 23-24. An advanced course in disciplined writing, both prose and verse. Students are to work independently without specific assignments. Fortnightly individual conferences with instructor. Limited to fifteen students. Requisite: English 23-24 and the consent of the instructor. *Elective for Juniors. First Semester.*

74. CREATIVE WRITING. Professor HUMPHRIES.

2 credit hrs.

Continuation of English 73. Limited to fifteen students. Requisite: English 73 and consent of the instructor. *Elective for Juniors. Second Semester.*

79-80. CONFERENCE COURSE. The Department.

6 credit hrs.

Elective for Seniors.

Fine Arts

Professor C. MORGAN; Associate Professors ROGERS and TRAPP;
Assistant Professor DARR

Note: A major in fine arts consists of six semester courses in the department, including Fine Arts 23 or 26 and Fine Arts 25 or 25S and two semester courses in allied fields. Honors in fine arts will include the foregoing with the addition of Fine Arts 79-80. Fine Arts 25 or 25S is normally the prerequisite for all advanced courses in the historical aspect of the subject except for Fine Arts 42; and Fine Arts 23 or 26 is normally the prerequisite for all advanced courses in the technical aspects of the field.

Fine Arts 25 or 25S may be used in satisfying the Sophomore humanities requirement.

23. ELEMENTARY TECHNIQUE AND DESIGN.

3 credit hrs.

Professor ROGERS.

Design, composition and line and form drawing in pencil, charcoal, crayon, pen and ink, and chalk. One lecture and two two-hour laboratory periods per week. No previous training required. *Elective for Sophomores. First semester.*

24. WATERCOLOR.

3 credit hrs.

Professor ROGERS.

Elementary color theory and technique of water color painting. Requisite. Fine Arts 23 or the consent of the instructor. One lecture and two two-hour laboratory periods per week. *Elective for Sophomores. Second semester.*

25. SURVEY OF THE HISTORY OF ART.

3 credit hrs.

Professor MORGAN.

The development of the major arts from the earliest time to the present day, with a special emphasis on the manner in which they reflect the successive civilizations that produced them. Three hours of classroom work per week. *Elective for Sophomores. First semester.*

25S. INTRODUCTION TO THE HISTORY OF ART.

3 credit hrs.

Professor TRAPP.

A topical examination of works of painting, sculpture and architecture selected from a variety of contexts intended to develop the student's ability to respond to the individual work of art in critical, as well as historical terms. Three hours of classroom work per week. *Elective for Sophomores. Second semester.*

26. INTRODUCTORY STUDIO. Professor TRAPP.

2 credit hrs.

A series of projects in drawing and design to introduce fundamental problems of description, organization, and artistic expression. These projects will relate to selected topics in art history, with the aim of correlating creative experience with history and criticism. Various drawing mediums and oil painting will be introduced. One three-hour class period per week, plus outside reading and practice assignments. No prior studio experience is required or special talent expected. Prerequisite or corequisite, Fine Arts 25 or 25s, or permission of the instructor. *Elective for Sophomores. Second semester.*

42. FOUR GREEK SITES. Professor C. MORGAN.

3 credit hrs.

A study of Athens, Corinth, Delphi and Olympia with especial reference to their development and their contribution to the art and culture of classical civilization. Three hours of classroom work per week. *Elective for Juniors. Second semester. (Omitted 1960-61.)*

43. RENAISSANCE ART. Professor TRAPP. 3 credit hrs.

A study of selective topics in European Art from the 14th to the early 16th centuries with emphasis upon major figures of the Italian Schools. Two one-hour lecture periods per week and one weekly afternoon meeting of approximately two hours for discussion, seminar presentation or elementary studio exercises relating to the classroom lecture and discussion. No prior studio experience is required or special talent expected. Outside reading and written assignments. Prerequisite Fine Arts 25 or 25s, or permission of the instructor. *Elective for Juniors. First semester.*

45S. AMERICAN ART. Professor C. MORGAN. 3 credit hrs.

American architecture, sculpture and painting in America from the 17th century to the present day. Three hours of classroom work per week. *Elective for Juniors. Second semester.*

47. DESIGN WORKSHOP. Professor DARR. 3 credit hrs.

An intermediate studio course in the organization of shapes and space in a variety of materials and modes of relationship to increase the student's command of the visual resources of the artist. Two hours classroom and two two-hour studio periods per week. Prerequisite Fine Arts 23 or 26 or permission of instructor. Limited to twelve students. *Elective for Juniors. First semester.*

48. OIL PAINTING. Professor DARR. 3 credit hrs.

A series of problems relating studio work to the vocabulary of historic forms. Classical and romantic points of view will be explored. Various approaches toward the object in space and relations of the object to time and movement as well as non-objective points of view will provide a framework for class exercises. Two three-hour studio periods per week. Limited to twelve students. Prerequisite Fine Arts 47 or permission of instructor. *Elective for Juniors. Second semester.*

49S. MICHELANGELO. Professor C. MORGAN. 1 credit hr.

A study of the artist, his works and his background. One lecture a week and reading. *Elective for Juniors. Second semester.*

50S. BAROQUE AND ROCOCO ART. Professor TRAPP. 3 credit hrs.

A study of major figures and movements in European art of the 17th and 18th centuries. Three hours of classroom work plus outside reading and written assignments. Requisite: Fine Arts 25 or 25s or permission of instructor. *First semester alternating with Fine Arts 43. (Omitted 1960-61.)*

53. THE GRAPHIC ARTS. Professor DARR. 3 credit hrs.

A studio course in creative printmaking. Letterpress and woodblock techniques will be explored. The wealth of material in the Crossett Collection and the Rare Books Room of Converse Library will be utilized to

relate studio work to a study of the development of the book, illustration and printing. The work of certain key figures in the history of printmaking will be studied in some detail. Two classroom hours per week and two two-hour studio periods per week. Limited to twelve students. No prerequisite. *Elective for Juniors. First semester.*

54. THE GRAPHIC ARTS. Professor DARR.

3 credit hrs.

A studio course in creative printmaking involving intaglio and planographic processes, a continuation of the work of Fine Arts 53, but it may be elected separately. The study of the work of Dürer, Callot, Rembrandt, Goya, Daumier, Picasso, and others will accompany the weekly studio work. Two classroom hours and two two-hour studio periods per week. Limited to twelve students. No prerequisite. *Elective for Juniors. Second semester.*

55. PROBLEMS IN MODERN EUROPEAN ART. Professor TRAPP. 3 credit hrs.

A selected examination of major figures and movements in the development of European painting from Romanticism to the present, with emphasis upon problems in criticism. Two one-hour lecture periods per week and one weekly afternoon meeting of approximately two hours for discussion, seminar presentation of elementary studio exercises relating to the classroom lectures and discussion. No previous studio experience is required or any special talent expected. Outside reading and written assignments. Prerequisite: Fine Arts 25 or 25s, or permission of the instructor. *Elective for Juniors. First semester.*

79, 80. SPECIAL STUDIES FOR STUDENTS MAJORING IN FINE ARTS.

4 credit hrs.

French

Professors FRENCH, FUNNELL, and TURGEON; Associate Professor JOHNSON;
Assistant Professor GIORDANETTI; Mr. JOSEPHS
Assistant: MRS. CANNON

Note: All rite majors in French are required to elect 30 semester hours of courses offered or approved by the department, including French 7 and 8, but excluding French 1 and 3. All honors candidates are required to elect courses 7 or 8, 10 or 12, 43, 44, 49, 50, 79 and 80. This course program may be adjusted in certain cases. Honors candidates must present a thesis and pass a comprehensive examination in the history of French literature since 1500 and in the critical interpretation of texts. Beginning with the class of 1962 all majors must pass the comprehensive examination. A reading list will be furnished to aid in preparation for the examination.

A combined major in two languages may be arranged by consultation

with the department. For a student whose primary foreign language is French, the major must include twenty credit hours in French exclusive of French 1 and 3; in the second language it must include ten hours, of which at least three must deal with literature. A comprehensive examination covering both fields will be given. A reading list will be made up to suit individual cases to aid in the preparation for the examination.

Requirements for Sophomores in Humanities. The following courses are approved as satisfying the Humanities requirement in sophomore year: any course numbered above 5, except French 10, 12, 21 and 22.

1. ELEMENTARY COURSE. 4 credit hrs.

Professor TURGEON and Mrs. CANNON.

Grammar, pronunciation, oral practice. Three hours per week for explanation and demonstration, four hours per week in small sections and laboratory for oral practice. *Elective for Freshmen. First semester.*

3. INTERMEDIATE COURSE. 4 credit hrs.

Professor FRENCH, Mr. JOSEPHS and Mrs. CANNON.

Review of grammar and pronunciation; oral practice. Reading and analysis of selected texts. Three hours per week for explanation and demonstration, three hours per week in small sections and laboratory for drill in aural comprehension of the language. *Elective for Freshmen. First semester.*

3S. INTERMEDIATE COURSE. 4 credit hrs.

Professor TURGEON and Mrs. CANNON.

Same description as above. *Elective for Freshmen. Second semester.*

5. ADVANCED COURSE. 4 credit hrs.

Professors JOHNSON and GIORDANETTI; Mr. JOSEPHS.

The purpose of this course is to complete the student's training in fluent reading and in oral comprehension. Reading of significant fiction and plays from the modern period. Three hours per week in class and three hours per week in laboratory for oral and aural drill. For those whose linguistic preparation is sufficient, there will be a special section in which more stress will be put on the reading as literature. Conducted as far as possible in French. *Elective for Freshmen. First semester.*

5S. ADVANCED COURSE. Mr. JOSEPHS. 4 credit hrs.

Same description as above. *Elective for Freshmen. Second semester.*

7. INTRODUCTION TO FRENCH LITERATURE BEFORE THE REVOLUTION.

Professor FUNNELL. 4 credit hrs.

Reading and discussion of selected texts. Requisite: Satisfaction of the language requirement. Four hours of classroom work per week. *Elective for Freshmen. First semester.*

8. INTRODUCTION TO FRENCH LITERATURE SINCE THE REVOLUTION.

Professor FUNNELL and Mr. JOSEPHS.

4 credit hrs.

Reading and discussion of selected texts. Requisite: satisfaction of the language requirement. Four hours of classroom work per week. *Elective for Freshmen. Second semester.*

10. INTERMEDIATE COMPOSITION AND CONVERSATION.

4 credit hrs.

Mr. JOSEPHS and Mrs. CANNON.

A review of French grammar with practice in set translation and free composition; oral reports on selected topics. Three hours per week of composition and two of oral practice. Requisite: Satisfaction of the language requirement in French. May not be elected after French 12. *Elective for Freshmen. Second Semester.*

12. ADVANCED COMPOSITION AND CONVERSATION.

4 credit hrs.

Professor GIORDANETTI and Mrs. CANNON.

Practice in free composition and in set translation of examples of a variety of styles; oral reports on selected topics. Three hours per week of composition and two of practice in conversation. Requisite: French 10 or permission of the instructor. *Elective for Sophomores, and for Freshmen with permission of the instructor. Second semester.*

17. READINGS IN THE FRENCH NOVEL.

3 credit hrs.

Professor GIORDANETTI and Mr. JOSEPHS.

The reading will include at least one novel each by Balzac, Stendhal and Flaubert, with others, as time permits, chosen from the eighteenth and later nineteenth centuries. This course will be conducted partially in French. Requisite: satisfaction of the language requirement. Three hours of classroom work per week. *Elective for Freshmen. First semester.*

18. TYPES OF MODERN LITERATURE.

4 credit hrs.

Professors FRENCH and GIORDANETTI.

An introductory literature course with emphasis on the study of types: novel, short story, theatre, poetry. Class examination of each type will be followed by study of other examples of the type done independently. Lectures and discussion groups. Conducted in French. Requisite: satisfaction of the language requirement. *Elective for Freshmen. Second semester.*

21, 22. READING COURSE.

4 credit hrs

A year course open to those who have already satisfied their language requirement in another language and who desire a reading knowledge of French. Four hours of classroom work per week. *Elective for Sophomores. First and second semesters. (Omitted 1960-61.)*

25S. FRENCH LYRIC POETRY. Professor FUNNELL. 2 credit hrs.

Medieval lyrics; poems by François Villon, Ronsard, du Bellay and Chénier; the chief Romantic and Parnassian poets of the nineteenth century. Requisite: French 7, 8, 17 or 18. Two hours of classroom work per week. *Elective for Sophomores. Second semester in alternate years. (Omitted in 1960-61.)*

27S. READINGS IN THE TWENTIETH CENTURY NOVEL. 3 credit hrs.
Professor GIORDANETTI.

Readings from the novels of such authors as Colette, Romains, Mauriac, Malraux, Sartre and others, but excluding Gide and Proust. The course will be conducted partially in French. Requisite: French 7, 8, 17 or 18. Two hours of classroom work per week. *Elective for Sophomores; limited to fifteen students. Second semester.*

29. FRENCH DRAMA SINCE 1890. Professor TURGEON. 3 credit hrs.

A survey of the principal trends in the modern theater with extensive readings from such authors as Claudel, Romains, Giraudoux, Anouilh, and Sartre. Requisite: French 7, 8, 17 or 18. Two hours of classroom work per week. *Elective for Sophomores; limited to fifteen students. First semester in alternate years. (Omitted 1960-61.)*

41. SPECIAL TOPICS IN FRENCH LITERATURE. 1-3 credit hrs.
THE DEPARTMENT.

In this course a student will work individually with one member of the department on an approved subject. In general authors dealt with in other advanced courses in French will not be approved for work in this course. The amount of credit to be given for the work will be settled in advance in consultation between the student and the department. Requisite: French 7, 8, 17 or 18, and consultation with, and the approval of, the department. *Elective for Juniors. First semester. (Omitted 1960-61.)*

42. SPECIAL TOPICS IN FRENCH LITERATURE. 1-3 credit hrs.
THE DEPARTMENT.

Description and requisites as for course 41. *Elective for Juniors. Second semester. (Omitted 1960-61.)*

43. FRENCH CLASSIC TRAGEDY—CORNEILLE AND RACINE. 4 credit hrs.
Professor TURGEON.

A study will be made of the history of the French theater in the seventeenth century and of the development and theory of classic tragedy, with detailed analysis of the principal tragedies of Corneille and Racine. Requisite: French 7, 8, 17 or 18. Three hours of classroom work per week. *Elective for Juniors and, with the consent of the instructor, for Sophomores; limited to twenty-five students. First semester in alternate years.*

44. FRENCH CLASSIC COMEDY—MOLIÈRE. PROFESSOR TURGEON. 4 credit hrs.

A detailed study of the principal comedies of Molière, and of the comic spirit as exemplified in LaFontaine and Boileau. Requisite: French 7, 8, 17 or 18. Three hours of classroom work per week. *Elective for Juniors and, with the consent of the instructor, for Sophomores; limited to twenty-five students. Second semester in alternate years.*

48. POETRY SINCE BAUDELAIRE. PROFESSOR FUNNELL. 2 credit hrs.

Baudelaire, the Symbolists, a few prominent poets of the twentieth century. Requisite: French 7, 8, 17 or 18. Two hours of classroom work per week. *Elective for Juniors and, with the consent of the instructor, for Sophomores. Second semester in alternate years.*

49. FRENCH LITERATURE OF THE RENAISSANCE. PROF. FRENCH. 4 credit hrs.

Readings in Rabelais, Montaigne and the poets of the 16th century. Requisite: French 7, 8, 17 or 18. Three hours of classroom work per week. *Elective for Juniors and, with the consent of the instructor, for Sophomores; limited to twenty-five students. First semester in alternate years. (Omitted 1960-61.)*

50. FRENCH LITERATURE OF THE EIGHTEENTH CENTURY. PROFESSOR GIORDANETTI. 4 credit hrs.

Voltaire, Diderot and Rousseau. Requisite: French 7, 8, 17 or 18. Three hours of classroom work per week. *Elective for Juniors and, with the consent of the instructor, for Sophomores; limited to twenty-five students. Second semester in alternate years. (Omitted 1960-61.)*

51. ANDRÉ GIDE. PROFESSOR GIORDANETTI. 1 credit hr.

Requisite: French 7, 8, 17 or 18. One hour of classroom work per week. *Elective for Juniors and, with the consent of the instructor, for Sophomores. First semester in alternate years.*

53. MARCEL PROUST. PROFESSOR GIORDANETTI. 1 credit hr.

Requisite: French 7, 8, 17 or 18. One hour of classroom work per week. *Elective for Juniors and, with the consent of the instructor, for Sophomores. First semester in alternate years. (Omitted 1960-61.)*

79. CONFERENCE COURSE FOR SENIORS. 4-6 credit hrs.
First semester.

80. CONFERENCE COURSE FOR SENIORS. 4-6 credit hrs.
Second semester.

Geology

Professor BAIN; Assistant Professors BROPHY and RESO.

Note: A major in geology consists of twelve semester hours in related subjects approved by the Department and twenty semester hours in geology which are divided into three blocks and arranged to make a sequence. Eight semester hours of Geology 21, and Geology 22, are fundamental. An additional 8 semester hours are essential to progress into an advanced field of geology. Four semester hours in an advanced field are required for a sequence. Science 21-22 are considered related subjects. Other related courses will be from that field of biology, chemistry, economics, mathematics or physics, advantageous to satisfactory progress in the advanced field selected for a major study.

The Department offers five sequences leading to a major in Geology. The sequences, and appropriate advanced subjects, are mineral studies (45), structural geology (79), geology of sedimentary rocks (44), geography of material resources (46) and paleontology (49 or 56).

A student may declare his intention to major at any time up to the end of his sixth semester. At that time he should have completed, or have arranged to complete, courses which will enable him to examine independently most problems in the field of his sequence.

Candidates for the degree with honors must have completed a sequence by the end of their seventh semester, except in the instance of the geography sequence, and undertake a program of individual study as part of Geology 80. Geology 46 may be taken concurrently with Geology 80 for students electing the geography sequence.

Attention of students intending to proceed to graduate school is drawn to the requirements by many institutions that an applicant take the graduate record examination and that the candidate for an advanced degree have a reading knowledge of two modern languages from the group French, German, and Russian. A thorough knowledge of Geology 21-22, 23-24 will afford coverage for 85% of the graduate record examination, and should be completed with a grade of B before applying to take this test.

21. PRINCIPLES OF GEOLOGY. PROFESSOR BROPHY.

4 credit hrs.

An introductory study of the historical development of the science, and the processes modifying the surface form and internal structure of the earth. Four hours classroom and two hours laboratory work per week. Laboratory will be held in the field when weather permits. *Elective for sophomores. First semester.*

21S. PRINCIPLES OF GEOLOGY. PROFESSOR BAIN.

4 credit hrs.

Same as 21. *Elective for Freshmen. Second semester.*

22. HISTORICAL GEOLOGY. PROFESSOR RESO. 4 credit hrs.

The history of the development of the continents, the succession of plants and animals, and the evolution of life during the geologic past. Four hours classroom and two hours laboratory work per week. Requisite: Geology 21. *Elective for Sophomores. Second semester.*

22S. HISTORICAL GEOLOGY. PROFESSOR RESO. 4 credit hrs.

(Same course as Geology 22.) *Elective for Sophomores. First semester.*

23. MINERALOGY. PROFESSOR BROPHY. 4 credit hrs.

A study of minerals and crystals including recognition, formation, occurrence, and use, and an introduction to the nature of crystalline matter. Three hours classroom and four hours laboratory work per week. *Elective for Sophomores. First semester.*

24. PETROLOGY. PROFESSOR BROPHY. 4 credit hrs.

A systematic study of sedimentary, igneous, metamorphic and hydrothermal rocks, their origins and physicochemical relationships. Three hours classroom and four hours laboratory work per week. Requisite: Geology 21 and Geology 23. *Elective for Sophomores. Second semester.*

26. REGIONAL GEOLOGY AND GEOGRAPHY OF THE AMERICAS. 2 credit hrs.
PROFESSOR BAIN.

A study of the development of the principal features in scenery, the rocks, the climate and human activities in the Americas and the surrounding oceans. Offered in alternate years with Geology 46. Two hours of classroom and one hour of laboratory work per week. Requisite: Geology 21. *Elective for Sophomores. Second semester. (Omitted 1960-61.)*

28. REGIONAL GEOLOGY AND GEOGRAPHY OF THE EASTERN HEMISPHERE. 2 credit hrs.
PROFESSOR BAIN.

A study of the development of the principal features in scenery, the rocks, the climate and human activities in the eastern hemisphere and occluded oceans. Offered in alternate years with Geology 46. Two hours of classroom and one hour of laboratory work per week. Requisite: Geology 21. (Students may elect either Geology 26, or 28, or both.) *Elective for Sophomores. Second semester. (Omitted 1960-61.)*

30. MINERALS IN MODERN AFFAIRS. PROFESSOR BROPHY. 2 credit hrs.

Minerals, their properties, recognition, distribution, and role today. This course is designed for the non-science major. Two hours classroom and one laboratory hour per week. *Elective for Sophomores. Second semester. (Not given for credit for students taking any other course in geology).*

44. SEDIMENTOLOGY AND STRATIGRAPHY. PROFESSOR RESO. 4 credit hrs.

A study of the features of modern sediments and the interpretation of

sedimentary rocks and occurrence of resources in stratified rocks. Three hours classroom and four hours laboratory work per week. Requisite: Geology 22. *Elective for Juniors. Second semester.*

45. MINERAL DEPOSITS. PROFESSOR BAIN. 4 credit hrs.

A study of the origin and distribution of bodies that contain minerals essential to modern industrial life. Three classroom hours and four laboratory hours per week. Requisite: Geology 24. *Elective for Juniors. First semester.*

46. WORLD RESOURCES. PROFESSOR BAIN. 4 credit hrs.

An investigation into supplies of materials from the earth available to man and the average requirement per person for each. Land acreage, water power, and mineral resources are studied in detail. Given in alternate years. Three hours classroom, one discussion period, and two hours laboratory work per week. Requisite: Geology 22, or 26, or 28. *Elective for Juniors. Second semester.*

49. INVERTEBRATE PALEONTOLOGY. PROFESSOR RESO. 4 credit hrs.

The identification, relationships, occurrence, and use of fossil invertebrate animals and plants. Three hours classroom and four hours laboratory work per week. Requisite: Geology 22. *Elective for Juniors. First semester.*

55. VERTEBRATE PALEONTOLOGY. PROFESSOR WOOD. 4 credit hrs.

The evolution of vertebrates as shown by the study of fossils, and the relationship of environment to evolution. Three hours classroom and four hours laboratory work per week. (Same course as Biology 55.) Requisite: Geology 22. *Elective for Juniors. First semester.*

79, 80. CONFERENCE COURSE. THE STAFF. 4 to 6 credit hrs.

Special investigation of one or more topics in mineral deposits, structural geology, sedimentology, paleontology, or world resources. Two or more hours conference per week and laboratory work as required. Requisite: The background courses in the Department. *Elective for Seniors.*

German

Professor SCENNA; Associate Professor PEPPARD;
Assistant Professor WHITE; Assistant: Mrs. BREUSCH.

Note: The following courses may be used to satisfy the Humanities requirement in sophomore year: German 7, 21, 22, 27, 28, 32, 33, 35.

Major for students not candidates for the degree with honors. The major must include thirty credit hours, not counting those of courses 1 and 3. Eight of these credits may be in approved courses outside the Department.

Honors: The aim of honors work in German is to offer the candidate the opportunity

- a) to explore a chosen field or fields through a more extensive program of readings than is possible in course work;
- b) to organize material for himself along historical or analytical lines, usually in the form of a thesis or essay;
- c) to acquire a general view of the history and development of German, either as language or literature.

The goal of this work is not necessarily to produce graduate students, unless a candidate has definitely decided upon doing graduate work. The program of the senior year is organized on the basis of individual conferences, in which the candidate benefits from personal attention.

Each candidate will present a thesis or essay on an approved topic. It may deal critically with the work of a specific author; it may treat the development of an idea in historical form; it may be a study of some particular literary form.

Each candidate will take, early in May, a written general examination on the history of German literature, which will also include questions in his chosen field. The result of this examination together with the excellence of the thesis or essay will determine the degree of honors for which the Department will recommend the candidate.

Candidates for the degree with honors should elect German 21, 22, 27, 43, 44, 79, 80. They are urged to study one ancient or other modern foreign language.

1. ELEMENTARY COURSE.

4 credit hrs.

Professor WHITE and Mrs. BREUSCH.

Grammar, pronunciation, oral practice. This course will meet three hours per week for explanation and demonstration, and three hours per week in small sections for oral practice. *Elective for Freshmen. First semester.*

3. INTERMEDIATE COURSE. Professor SCENNA.

4 credit hrs.

Review of grammar and pronunciation; oral practice. Reading and analysis of selected texts. This course will meet three hours per week for explanation and demonstration, and three hours per week in small sections for drill in aural comprehension of the language. Assignment to this course will be made on the basis of the score in the CEEB Achievement Test. *Elective for Freshmen. First semester.*

3S. INTERMEDIATE COURSE.

4 credit hrs.

Professor WHITE and Mrs. BREUSCH.

Same description as above. Requisite: German 1, or its equivalent. *Elective for Freshmen. Second semester.*

5. ADVANCED COURSE. PROFESSOR WHITE and Mrs. BREUSCH. 4 credit hrs.

Reading and analysis of selected texts. This course will meet three hours per week for demonstration and explanation, and three hours per week in small sections for oral practice and discussion. Stress will be placed on the acquisition of aural comprehension of the language and oral drill. Conducted as far as possible in German. Requisite: A satisfactory score in the CEEB Achievement Test, or German 3, or the equivalent. *Elective for Freshmen. First semester.*

Note: Freshmen will be assigned to German 1, German 3, or German 5 on the basis of the score in the CEEB Achievement Test and previous training. Part of the drill in these courses will be in the language laboratory.

5S. ADVANCED COURSE. PROFESSOR WHITE and Mrs. BREUSCH. 4 credit hrs.

Same description as above. Requisite: German 3 or its equivalent. *Elective for Freshmen. Second semester.*

7. INTRODUCTION TO GERMAN LITERATURE.

4 credit hrs.

Professor PEPPARD.

Reading and discussion of selected literary texts. This course will be conducted as far as possible in German. Requisite: satisfaction of the language requirement. Four hours of classroom work per week. *Elective for Freshmen. First semester.*

7S. INTRODUCTION TO GERMAN LITERATURE.

4 credit hrs.

Professor PEPPARD.

Same description as above. Requisite: satisfaction of the language requirement, including satisfaction of the requirement at the end of the first semester. *Elective for Freshmen. Second semester.*

21. FAUST. PROFESSOR SCENNA.

2 credit hrs.

Faust, Part I. Study of the Faust legend and assigned readings. Requisite: German 7 or the consent of the instructor. Two classroom meetings per week. *Elective for Sophomores. First semester.*

21S. FAUST. PROFESSOR SCENNA.

2 credit hrs.

Same description as above. *Elective for Sophomores. Second semester.*

22S. FAUST. PROFESSOR SCENNA.

2 credit hrs.

Faust, Part II. Study of the Faust legend and assigned readings. Requisite: German 21 or the consent of the instructor. Two classroom meetings per week. *Elective for Sophomores. First semester.*

22. FAUST. PROFESSOR SCENNA.

2 credit hrs.

Same description as above. *Elective for Sophomores. Second semester.*

23. ADVANCED COMPOSITION AND CONVERSATION.

4 credit hrs.

Practice in free composition and set translation into German; oral reports on selected topics. This course is designed primarily for those who wish to perfect their command of German for further study or for teaching the language. Offered every other year. Requisite: the consent of the instructor. *Elective for Sophomores. First semester. (Omitted 1960-61.)*

25, 26. READING COURSE. PROFESSOR PEPPARD.

4 credit hrs.

A year course open to those who have already satisfied their language requirement in another language and who desire a reading knowledge of German. Four hours of classroom work per week. *Elective for Sophomores. First and second semesters.*

27. THE AGE OF GOETHE. PROFESSOR SCENNA.

4 credit hrs.

A study of the development of German literature, particularly as reflected in the works of Goethe, excluding *Faust*. Selected readings in other authors of the period. Lectures, essays and assigned readings. Requisite: German 7 or the consent of the instructor. Three hours of classroom work per week. *Elective for Sophomores; limited to fifteen students. First semester.*

28. ADVANCED READINGS IN GERMAN LITERATURE.

3 credit hrs.

Professor PEPPARD.

The content of this course will be determined each year by the instructor in charge. For 1960-61: German literature of the twentieth century, with some attention to the relation of literature to the national scene. Requisite: German 7, or consent of the instructor. Three hours of classroom work per week. *Elective for Sophomores. Second semester.*

32. THOMAS MANN. PROFESSOR WHITE.

1 credit hr.

An introduction to the shorter works of Thomas Mann and a study of his place in modern letters. Lectures and discussion. Requisite: German 7 or the consent of the instructor. One hour of classroom work per week. *Elective for Sophomores. Second semester.*

33. FRANZ KAFKA. PROFESSOR WHITE.

1 credit hr.

A study of Kafka and his place in European literature. Lectures and discussion. Requisite: German 7 or the consent of the instructor. One hour of classroom work per week. *Elective for Sophomores. First semester.*

35. GERMAN POETRY OF THE TWENTIETH CENTURY.

1 credit hr.

Interpretation of German verse of the period, with emphasis on George, Rilke, Hofmannsthal, and the Expressionists. Requisite: German 7 or the consent of the instructor. One hour of classroom work per week. *Elective for Sophomores. First semester. (Omitted 1960-61.)*

42. GERMAN LITERATURE OF THE NINETEENTH CENTURY. 4 credit hrs.
Professor SCENNA.

Major developments in German prose, poetry and drama since the age of Goethe, with some attention to the contemporary literary scene. Readings, reports and discussions. Requisite: German 21, or German 27, or the consent of the instructor. One seminar meeting per week, together with individual conferences. *Elective for Juniors. Second semester.*

43. STUDIES IN GERMAN CULTURE I. Professor PEPPARD. 4 credit hrs.

Assignment of individual problems or readings in fields of special interest. Requisite: German 22 or the consent of the instructor. *Elective for Seniors. First semester.*

44. STUDIES IN GERMAN CULTURE II. Professor SCENNA. 4 credit hrs.

Assignment of individual problems or readings in fields of special interest. Requisite: German 22, or German 43, or the consent of the instructor. *Elective for Seniors. Second semester.*

- 79-80. HONORS COURSE FOR SENIORS. The Department. 6 credit hrs.

History

Professors COMMAGER*, HAVIGHURST, ROZWENC, and SALMON†, Associate Professors DOUGLAS, GREENE,* and HALSTED; Assistant Professors CROWLEY, and HAWKINS; Messrs. BARNES, GAGLIARDO, and PETROPULOS.

Note: A major in history will consist of eight semester courses in addition to the required sequence courses (History 1-2 and American Studies 21-22) of the freshman and sophomore years.

History 23-24 will satisfy the humanities requirement.

Honors Program: All candidates for honors must elect History 70, 79, and 80. These three courses form an integrated enterprise. The object is to offer the student an opportunity to arrive at some understanding of what "history" is and how the historian works: first, by the study of the writings of historians themselves and of a variety of problems which historians have faced, and second, by individual and original work through the application of historical principles. Thus, the nature and method of history will be studied in the statements of certain well-known historians as to what they conceive themselves to have been doing, and then through the examination of how various historians have used evidence, employed analytic concepts, and synthesized materials in selected areas of historical experience. Hence, students will have an opportunity to assess a variety

* Absent on leave 1960-61.

† Absent on leave first semester.

of approaches to history as well as the usefulness to history of concepts taken from adjacent disciplines. By stressing the importance of selecting a thesis topic in the spring of the junior year, encouragement will be given to a fuller utilization of the summer following for research or for further preparatory work in a relevant language. In the senior year, the History honors student will give a very considerable part of his time to the preparation of a thesis.

Candidates for honors in History must take, in addition to the social science sequences of the freshman and sophomore years, eight semester courses in the Department. These courses will include the three conference courses in the honors program. Those who wish to concentrate in the field of European history should work out a balanced program of courses in several periods of European history. Those who wish to concentrate in American history should work out a program that will deepen their understanding of American historical experience and its European background. All honors candidates, however, should realize the value of comparative historical study, for example, as between Europe and America, or between Europe and Asia. Useful historical inquiry depends upon familiarity with the problems and methods of historical investigation; but the student of history cannot raise historical questions fruitfully unless he has become familiar with the continuities and the diversities in human thought and behavior in the past.

1. THE DEVELOPMENT OF WESTERN CIVILIZATION AND AN INTRODUCTION TO THE SOCIAL SCIENCES. *4 credit hrs.*

Professors CROWLEY, DOUGLAS, HALSTED and HAVIGHURST; Messrs. BARNES, GAGLIARDO and PETROPULOS.

An introduction to the history of Europe, with particular emphasis on the development of its social order, economic and political institutions, social theory and historical thought; the course also examines the encounter of Europeans with the civilizations of Islam and the Far East. Two lectures, two section meetings per week. *Required for Freshmen. First semester.*

2. THE DEVELOPMENT OF WESTERN CIVILIZATION AND AN INTRODUCTION TO THE SOCIAL SCIENCES. *4 credit hrs.*

Professors SALMON, CROWLEY, DOUGLAS, HALSTED, and HAVIGHURST; Messrs. BARNES, GAGLIARDO, and PETROPULOS.

Continuation of History 1. Two lectures, two section meetings per week. *Required for Freshmen. Second semester.*

21. LATIN AMERICA. Professor SALMON. *3 credit hrs.*

The national history of the Latin American states from independence to the present. There will be a brief summary of the Indian and the

Iberian backgrounds and the course will deal with economic and international problems along with political developments of the 19th and 20th centuries. *Elective for Sophomores. First semester. (Omitted 1960-61.)*

22. LATIN AMERICA. Professor SALMON. 3 credit hrs.
(Omitted 1960-61.)

23. CLASSICAL CIVILIZATION. Professor MOORE. 3 credit hrs.
(Same course as Classics 23.) *Elective for Sophomores. First semester.*

24. CLASSICAL CIVILIZATION. Mr. MARSHALL. 3 credit hrs.
(Same course as Classics 24.) *Elective for Sophomores. Second semester.*

25. TOPICS IN THE HISTORY OF MEDIEVAL EUROPE. 4 credit hrs.
Professor HAVIGHURST.

A course based on the intensive study of four or five aspects of medieval society, institutions and thought. Topics will be chosen to illustrate: (1) sources and forms of historical evidence; (2) the use and interpretation of such evidence in historical writing. Emphasis will be placed on the varied ways in which the age reveals itself to historians. Individual projects and class discussion. *Elective for Sophomores. First Semester.*

33. THE HISTORY OF AMERICAN SOCIETY. Professor ROZWENG. 4 credit hrs.

The changing relations in American social thought and behavior in the generations from the American Revolution to the end of the Civil War. Emphasis is given to basic political, economic and social institutions, to the place of science and technology in American society, and to competing ideas and social myths. *Elective for Sophomores. First semester.*

34. THE HISTORY OF AMERICAN SOCIETY. Professor ROZWENG. 4 credit hrs.

The changing relations in American social thought and behavior in the generations from the Gilded Age to the present. Emphasis is given to basic political, economic and social institutions, to the place of science and technology in American society, and to competing ideas and social myths. *Elective for Sophomores. Second semester.*

36. THE HISTORY OF AMERICAN EDUCATION. Professor HAWKINS 4 credit hrs.

Selected topics with emphasis on the Nineteenth Century, higher education and European influences. Students will pursue individual case studies in areas chosen for analysis. Three meetings a week. Limited to twenty-five students. *Elective for Sophomores. Second semester.*

40. SOUTHEAST EUROPE AND THE NEAR EAST IN MODERN TIMES. 4 credit hrs.
Mr. PETROPULOS.

The course will begin with the rise and decline of the Ottoman Empire, as necessary background for the emergence of successor nation-states in

Southeast Europe and the Near East. Special attention will be given to the impact of Western civilization on the traditional cultures of Orthodoxy and Islam. Differing approaches to contemporary problems of underdevelopment will be studied with special reference to Yugoslavia, Turkey, and the United Arab Republic. *Elective for Juniors. Second semester.*

41. RUSSIA.

3 credit hrs.

General history of the Russian people, state, and culture from their origins to 1881. *Elective for Juniors. First semester. (Omitted 1960-61.)*

42. RUSSIA. PROFESSOR SALMON.

4 credit hrs.

History of Russia and the Soviet Union in the 19th and 20th centuries. *Elective for Juniors. Second semester.*

43. EUROPE IN THE NINETEENTH CENTURY. PROFESSOR HALSTED. 4 credit hrs.

An examination of the character of European society in the early nineteenth century through the study of four or five topics selected to reveal the relationships of dominant intellectual currents to major political, social, and economic developments. *Elective for Juniors. First semester.*

44. EUROPE IN THE NINETEENTH CENTURY. PROFESSOR HALSTED. 4 credit hrs.

Ideas and social change in the latter part of the nineteenth century in Europe, examined through four or five illustrative topics. *Elective for Juniors. Second semester.*

45. THE FAR EAST: CHINA AND JAPAN. PROFESSOR CROWLEY. 4 credit hrs.

A study of the processes of change within the political, social, economic and religious institutions of "traditional" China and Japan. Particular attention will be given to the influence of ideas and social values on the political history of both countries from antiquity to the 18th century. *Elective for Juniors. First semester.*

46. THE FAR EAST: CHINA AND JAPAN. PROFESSOR CROWLEY. 4 credit hrs.

An appraisal of the processes of revolution and institutional change in East Asia during the 19th and 20th centuries. Emphasis will be given to the following themes: the role of "traditional" values in China's response to the West and in the modernization of Japan; the nature and significance of Japan's New Order in West Asia; and the emergence of Communist China. *Elective for Juniors. Second semester.*

47. SEVENTEENTH CENTURY EUROPE.

4 credit hrs.

Elective for Juniors. First semester. (Omitted 1960-61.)

48. AGE OF THE ENLIGHTENMENT.

4 credit hrs.

Elective for Juniors. Second semester. (Omitted 1960-61.)

49. EUROPE IN THE TWENTIETH CENTURY

4 credit hrs.

Elective for Juniors. First semester. (Omitted 1960-61.)

50. THE SECOND WORLD WAR. PROFESSOR SALMON.

4 credit hrs.

The diplomatic and military history of the period from the middle 1930's, studying the breakdown of Collective Security, the Second World War, and the post-war developments. Three classroom hours per week, with conferences. *Elective for Juniors. Second semester. (Omitted 1960-61.)*

51S. ENGLISH HISTORY: TUDORS AND STUARTS.

3 credit hrs.

Professor HAVIGHURST.

An examination of English society and institutions from 1485 to 1714: the English break with Rome and the Elizabethan Settlement in religion; the Elizabethan Age; development of Puritan thought; constitutional conflicts of the 17th century, with some attention to their social and economic implications. Three hours of classroom work per week. *Elective for Juniors. Second semester.*

52. BRITAIN SINCE 1815. PROFESSOR HAVIGHURST.

4 credit hrs.

A study of some of the fundamental changes in English society and institutions from 1815 to the present. Where possible contemporary materials will be the basis of study. Topics to be examined: "Victorian Compromise"; British policy in Europe; social thought and social change, 1870-1914; changing concept of Empire; Socialist Britain. Lectures, discussion and individual projects. *Elective for Juniors. Second semester. (Omitted 1960-61.)*

55. THE FRENCH REVOLUTION. MR. BARNES.

3 credit hrs.

A study of the Revolution in France and its impact on Western Europe and on western civilization, with brief consideration of the Ancien Regime and with emphasis on political, economic, and military factors.

Three hours of classroom work per week. *Elective for Juniors. First semester.*

56. THE AGE OF NAPOLEON. PROFESSOR SALMON.

3 credit hrs.

A continuation of History 55 from 1799 through 1815.

Three hours of classroom work per week. *Elective for Juniors. Second semester.*

57. THE SOUTH SINCE THE CIVIL WAR. PROFESSOR HAWKINS. 4 credit hrs.

An examination of the South as a culture, with stress on the forces that have affected its particularism. Reconstruction; Redemption and the New South; Populist Revolt; Disfranchisement and the Atlanta Compromise; topical investigations of the political, economic, social, and intellectual life of the South in the present century. The last fifth of the course will be devoted to the South since 1940, emphasizing New Reconstruction.

Three class-meetings per week. Limited to 25 students. *Elective for Juniors. First semester.*

59. SOCIETY AND POLITICS IN DE TOCQUEVILLE'S AMERICA. 4 credit hrs.

Professor ROZWENC.

An intensive examination of the influence of social and economic changes upon politics in America in the second quarter of the nineteenth century. Special attention will be given to political ideas not only of politicians but of journalists and literary figures as well. A few key problems will be analyzed by means of a comparative examination of England and France in the same period. *Elective for Juniors. Limited to twenty-five students. First semester. (Omitted 1960-61.)*

60. SOCIETY AND POLITICS IN THE ERA OF THE NEW DEAL.

Professor ROZWENC.

4 credit hrs.

An intensive examination of the influence of social and economic changes upon politics in the second quarter of the twentieth century. Special attention will be given to selected writings including imaginative literature as well as conventional political thought. Wherever possible, European historical experience will be used for purposes of comparative analysis. *Elective for Juniors. Limited to twenty-five students. Second semester. (Omitted 1960-61.)*

61. FOUNDATIONS OF AMERICAN CIVILIZATION.

4 credit hrs.

Professor GREENE.

An analysis of the first five generations of Americans (from early settlers through the Revolutionary generation) with emphasis upon the origins of certain fundamental themes in American history: social classes, immigration, European-American relations, frontier vs. city, science vs. religion, and constitutional democracy. Four hours of classroom work per week. *Elective for Juniors. First semester. (Omitted 1960-61.)*

62. AMERICAN DIPLOMATIC HISTORY. PROFESSOR GREENE.

3 credit hrs.

The history of American foreign policy from the American Revolution to the present, with emphasis on the period since 1898. Three hours of classroom work per week. *Elective for Juniors. Second semester. (Omitted 1960-61.)*

63. THE ITALIAN RENAISSANCE. PROFESSOR DOUGLAS. 4 credit hrs.

Urban society in Italy (c. 1200-1500), forms of power, the social order, humanist thought, theory of art and the uses of antiquity. Concluding weeks deal with Burgundy and the Netherlands in the fifteenth century. *Elective for Juniors. First semester.*

- 64 THE SIXTEENTH CENTURY. PROFESSOR DOUGLAS. 4 credit hrs.

The Renaissance in northern Europe and the Reformation, with emphasis on the major forms of protest and complaint, both secular and religious, against the condition of society, the state and the church. *Elective for Juniors. Second semester.*

66. THE PROGRESSIVE GENERATION. PROFESSOR GREENE. 4 credit hrs.

A study of the responses to change made by Americans in the generation from 1890 to 1920. By concentrating upon a single generation the course will explore some of the interrelations among politics, literature, business, the professions, religion, and popular culture. *Elective for Juniors. Second semester. (Omitted 1960-61.)*

67. FOUNDATIONS OF ENGLISH LAW AND THE CONSTITUTION.

PROFESSOR HAVIGHURST.

4 credit hrs.

Origins of the English Constitution; growth of Common Law; evolution of Parliament; development of monarchy; constitutional conflicts. Lectures, seminar discussion and individual projects. Three hours of classroom work per week. *Elective for Juniors; limited to twenty-five students. First semester. (Omitted 1960-61.)*

70. CONFERENCE COURSE. JUNIOR HONORS. THE DEPARTMENT. 4 credit hrs.

Elective for Juniors. Second semester.

71. THE ORIGINS AND DEVELOPMENT OF AMERICAN NATIONALISM.

PROFESSOR COMMAGER.

3 credit hrs.

Elective for Juniors. First semester. (Omitted 1960-61.)

73. CONFERENCE COURSE IN AMERICAN INTELLECTUAL HISTORY.

PROFESSOR COMMAGER.

4 credit hrs.

Elective for Juniors. First semester. (Omitted 1960-61.)

74. CONFERENCE COURSE IN AMERICAN INTELLECTUAL HISTORY.

PROFESSOR COMMAGER.

4 credit hrs.

Continuation of History 73. *Elective for Juniors. Second semester. (Omitted 1960-61.)*

79. CONFERENCE COURSE. SENIOR HONORS.

6 credit hrs.

The Department.

This course consists of two enterprises: (a) a seminar in Historiography; (b) preparation of an Honors Thesis. *Elective for Seniors. First Semester.*

80. CONFERENCE COURSE. SENIOR HONORS.

6 credit hrs.

The Department.

Preparation of an Honors Thesis. Requisite: History 79. *Elective for Seniors. Second semester.*

Humanities

1. HUMANITIES.

2 credit hrs.

Professors FUNNELL (chairman), HUMPHRIES, EPSTEIN, DIETEL, GOULD, KATEB, PEMBERTON, REVARD, and Messrs. DOLIN, GAGLIARDO, MARSHALL and PETROPULOS.

A reading course: fairly rapid reading for understanding and enjoyment. The course is intended to serve as a contribution to the student's general education, and the books are chosen to illustrate certain important stages in the development of Western culture. The reading list varies somewhat from year to year, but in general this semester is given over largely to Greek literature and to the Bible. The course is conducted in small sections: class discussions, short papers, occasional lectures. Two hours per week. *Required for Freshmen. First semester.*

2. HUMANITIES.

2 credit hrs.

Professors FUNNELL (chairman), HUMPHRIES, MOORE, KENNICK, DIETEL, GOULD, KATEB, PEMBERTON, REVARD, and Messrs. BARNES, DOLIN and GAGLIARDO.

A continuation of Humanities 1. The reading list for this semester includes in general works selected from the medieval, Renaissance and modern periods. Three hours per week. Requisite: Humanities 1. *Required for Freshmen. Second semester.*

Italian

Professor FRENCH

1. ELEMENTARY COURSE.

4 credit hrs.

Professor FRENCH.

Recognition and imitation of basic sentence patterns, vocabulary and verb forms. Extensive drill on pronunciation in class and laboratory; graded reading from beginning of course with aural-oral drill on same. Six hours classwork practice and laboratory per week. *Elective for Freshmen. First semester.*

3S. INTERMEDIATE COURSE. Professor FRENCH.

4 credit hrs.

Continued oral-aural practice. Reading and analysis of original texts, such as Wilkins and Altrocchi, *Italian Short Stories*; Pirandello, *Atti unici* (3 plays); Fogazzaro, *Piccolo mondo antico*. Five hours per week. *Elective for Freshmen. Second semester.*

21. READINGS IN ITALIAN LITERATURE FROM BOCCACCIO TO THE PRESENT.

Professor FRENCH.

4 credit hrs.

Reading of important works with special attention to the modern period. Requisite: Italian 3. Four hours of classroom work per week. *Elective for Sophomores. First semester.*

22. DANTE. Professor FRENCH.

4 credit hrs.

A reading of the *Inferno* and of parts of the *Purgatorio* and *Paradiso*. Special study of the social and political background of the work. Requisite: Italian 21. Special reports and papers. Given in alternate years. Three hours of classroom work per week. *Elective for Sophomores; limited to twenty-five students. Second semester. (Omitted 1960-61.)*

24. THE RENAISSANCE. Professor FRENCH.

4 credit hrs.

Origins in Boccaccio's *Decamerone* and in Petrarch's *Canzoniere*. Reading of Cellini's *Vita*, Castiglione's *Cortegiano* and Machiavelli's *Principe* with a study of the social background of the fifteenth and sixteenth centuries in Italy. Special reports and papers. Requisite: Italian 21. Three hours of classroom work per week. *Elective for Sophomores; limited to twenty-five students. Second semester.*

Legal Studies

Professors HAVIGHURST, LATHAM, LOEWENSTEIN and ZIEGLER.

25. AMERICAN CONSTITUTIONAL DEVELOPMENT.

4 credit hrs.

Professor LATHAM.

The development of American constitutional philosophy since 1787 under three general heads: the Agrarian Constitution, the Laissez-Faire Constitution, and the Welfare Constitution. Topics will include the Marshall and Taney eras, constitutional problems of slavery, the Civil War and Reconstruction, the constitutional foundations of 19th century capitalism, constitutional problems of federal and state regulation, civil liberties in the 20th century, the constitutional crisis of 1935-1937, and current problems of constitutional interpretation. Attention will be given to the judicial philosophies of the Federalist and Jacksonian judges, Field, Miller,

Waite, Harlan, Holmes, Brandeis, Hughes, Stone, Black, and Frankfurter. Four hours of classroom work per week. (Same course as Political Science 25.) *Elective for Sophomores. First semester.*

42. ADMINISTRATIVE LAW. PROFESSOR ZIEGLER.

4 credit hrs.

An introduction to the American system of legal control exercised by other law administering agencies than the courts, with special reference to doctrines developed by the Interstate Commerce Commission, Securities and Exchange Commission, Federal Trade Commission, and the National Labor Relations Board. The course deals with the formulation of legislative purposes and administrative policies; administrative and judicial responsibility for the enforcement of agency programs; and the nature and extent of judicial control over administrative action. (Same course as Political Science 42.) Prerequisite: Political Science 25 or Political Science 41. Three hours of classroom work per week. *Elective for Juniors; limited to twenty-five students. Second semester.*

44. INTERNATIONAL LAW. PROFESSOR ZIEGLER.

4 credit hrs.

The historical basis and present trends in the development of international law will be discussed and related to the social, economic, and political aspects of present day world politics and government. (Same course as Political Science 44.) Four hours of classroom work per week. *Elective for Juniors. Second semester. (Omitted 1960-61.)*

67. FOUNDATIONS OF ENGLISH LAW AND THE CONSTITUTION.

4 credit hrs.

Professor HAVIGHURST.

Origins of the English Constitution; growth of Common Law; evolution of Parliament; development of Monarchy; constitutional conflicts. (Same course as History 67.) Three hours of classroom work per week. *Elective for Juniors; limited to twenty-five students. (Omitted 1960-61.)*

Mathematics

Professors BREUSCH, BROWN, and SPRAGUE; Associate Professor WILLCOX;
Assistant Professor LOOMIS.

Note: A major in mathematics must elect 3, 23, 25, 31, 32 and either 42 or 48 his senior year. All mathematics courses except 1-2 give major credit.

In addition to the general college requirements, a degree with honors is awarded on the basis of accomplishment in the courses in mathematics required for a major, in the conference course, and in any additional courses prescribed by the Department. A thesis may be required.

The content of the conference course varies from year to year. Topics that have been or may well be given are Complex Variable, Abstract Algebra, Algebraic Geometry, Differential Geometry, Topology and Analysis.

1. Same course as Science 1. 4 credit hrs.
2. Same course as Science 2. 4 credit hrs.
3. CALCULUS. PROFESSORS SPRAGUE and BREUSCH. 4 credit hrs.

Continuous functions, differentiation and integration of trigonometric and logarithmic functions and their inverses, curvature, curvilinear motion, curve tracing, theorem of mean value, formal integration, infinite series, simple partial differentiation. Requisite: Science 1 or its equivalent. Four hours of classroom work per week. *Elective for Sophomores. First semester.*

- 3S. CALCULUS. PROFESSOR SPRAGUE. 4 credit hrs.

Same description as above. *Elective for Freshmen. Second semester.*

- 23S. DIFFERENTIAL EQUATIONS. PROFESSOR WILLCOX. 4 credit hrs.

Treatment of ordinary differential equations with principal types of first and second order equations, linear equations with constant coefficients, simultaneous equations. Simple partial differential equations. Applications to geometry, physics and other branches of science. Requisite: Mathematics 3. Four hours of classroom work per week. *Elective for Sophomores. Second semester.*

25. ABSTRACT ALGEBRA. PROFESSOR BROWN. 4 credit hrs.

A development of the characteristic properties of the integers and the rational, real and complex number systems as instances of properties of rings, integral domains and fields, followed by a selection from the following topics: groups, polynomial rings, matrix rings. Four hours of classroom work per week. *Elective for Sophomores. First Semester.*

31. ADVANCED CALCULUS. PROFESSOR WILLCOX. 4 credit hrs.

Brief treatment of determinants and solid analytic geometry, partial differentiation, implicit function theory, elements of vector analysis with applications. Requisite: Mathematics 3. Four hours of classroom work per week. *Elective for Juniors. First semester.*

32. ADVANCED CALCULUS. PROFESSOR WILLCOX. 4 credit hrs.

Multiple integrals, line and surface integrals, transformation of integrals, uniform convergence, Fourier series. Requisite: Mathematics 31. Four hours of classroom work per week. *Elective for Juniors. Second semester.*

33S. MATRICES AND VECTOR SPACES. PROFESSOR BROWN. *3 credit hrs.*

Vector spaces; matrices and linear transformations on a vector space; determinants and their role in linear algebra; diagonalization and canonical forms of matrices; some applications to other branches of science. Three hours of classroom work per week. *Elective for Sophomores. Second semester, alternate years.*

34. PROBABILITY AND STATISTICS. *3 credit hrs.*

Elementary probability. Random variables with discrete and continuous distribution functions. Joint distribution functions. Distribution functions of frequent occurrence in statistics, such as Poisson, normal in one and two variables, Chi square and Student's *t*. Requisite: Mathematics 3. Three hours of classroom work per week. *Elective for Sophomores. Second semester, alternate years. (Omitted 1960-61.)*

42. FUNCTIONS OF A COMPLEX VARIABLE. PROFESSOR BREUSCH. *3 credit hrs.*

An introduction to analytic functions. Point sets, complex numbers, derivatives, conformal mapping, integrals. Cauchy's theorems, power series, singularities, Laurent series, analytic continuation, rational, entire, meromorphic and multiple-valued functions. Riemann surfaces. Requisite: Mathematics 31. Three hours of classroom work per week. *Elective for Juniors. Second semester, alternate years.*

43. THEORY OF NUMBERS. *3 credit hrs.*

An introduction to the theory of rational integers. Divisibility, prime numbers, the unique factorization theorem, congruences, quadratic residues, Fermat's theorem, Diophantine equations. Three hours of classroom work per week. *Elective for Juniors. First semester, alternate years. (Omitted 1960-61.)*

45. POINT-SET TOPOLOGY. PROFESSOR WILLCOX. *3 credit hrs.*

A brief treatment of elementary set theory and the real number system will be given to motivate the definition of a topological space, after which topics will be selected from the following: topological spaces, metric spaces, compactness, connectedness, embedding theorems, metrization theorems, compactification, topological characterizations of arcs and curves. Requisite: Mathematics 25 or 32. Three hours of classroom work per week. *Elective for Juniors. First semester, alternate years.*

48. DIFFERENTIAL GEOMETRY. *3 credit hrs.*

An introduction to the differential geometry of curves and surfaces; curvature, torsion, Frenet formulae; curvilinear coordinates, first and second fundamental form, surface curvature, lines of curvature, geodesics,

fundamental equations. Requisite: Mathematics 31. Three hours of classroom work per week. *Elective for Juniors. Second semester, alternate years. (Omitted 1960-61.)*

79. CONFERENCE COURSE. Professor LOOMIS. 4 credit hrs.
Elective for Seniors. First semester.

80. CONFERENCE COURSE. Professor LOOMIS. 6 credit hrs.
Elective for Seniors. Second semester.

Music

Professors MISHKIN and V. MORGAN; Mr. ALEXANDER

Note: There are two programs available for students majoring in music.

1. The music major which does not include applied music consists of Music 25, Music 23-24, Music 41-42, Music 53-54 and at least three other courses offered by the Department.

2. A music major which includes applied music consists of Music 25, Music 23-24, either Music 41-42 or Music 53-54, two years of Music 29-30 and one other semester course offered by the Department.

An individual program will be arranged for each candidate for the degree with honors in music at the beginning of junior year. Concentration may be in advanced theory, music history, or applied music. Part of this advanced work may be done with members of the Smith and Mt. Holyoke music departments. All honors candidates must elect Music 79-80 and, late in the final semester of senior year, they will be required to take a comprehensive oral examination. Other examinations, essays or recitals will be arranged according to the individual's program.

Music 25 and any other course except 23-24, 29-30, 47-48, 53-54 may be used in satisfaction of the Sophomore humanities requirement.

Beginning with the class of 1962 a comprehensive examination on music theory and music literature will be required of all majors.

23. ELEMENTARY THEORY. Professor MISHKIN. 4 credit hrs.

A study of the rhythmic, melodic, and harmonic organization of musical tones with emphasis on the harmonic idiom of the eighteenth century. Triads and their inversions, non-harmonic tones, secondary dominants, writing in the style of the Bach chorales, ear training. Limited to fifteen

students. Requisite: ability to play all written work and consent of the department. Three hours of classroom work per week. *Elective for Sophomores. First semester.*

24. ELEMENTARY THEORY.

4 credit hrs.

Professor MISHKIN.

A continuation of Music 23. Seventh chords, elementary phrase construction, harmonic analysis. Limited to fifteen students. Requisite: Music 23. Three hours of classroom work per week. *Elective for Sophomores. Second semester.*

25. AN INTRODUCTION TO MUSICAL LITERATURE.

3 credit hrs.

Professor V. MORGAN.

Western music from Gregorian chant to the present time with emphasis on music since 1500. No previous study of music is required. *Elective for Sophomores. First semester.*

25S. AN INTRODUCTION TO MUSICAL LITERATURE.

3 credit hrs.

Professor V. MORGAN.

Same course as Music 25. *Elective for Sophomores. Second semester.*

29. APPLIED MUSIC.

3 credit hrs.

Courses are offered in the following branches of applied music: piano, organ, voice, violin, viola, violoncello. These courses may be elected by a limited number of students who satisfy the department, at an audition, that they are prepared to undertake the study of solo music literature of artistic worth. Students will normally be expected to begin their college work in applied music as sophomores and to continue this study for two years. During the first two years of study three credit hours will be granted for each semester. Under exceptional circumstances a student may, with permission of the Dean, elect a third year for which there will be two credit hours per semester. No credit is granted for a single semester of applied music.

Students of keyboard and string instruments have one hour of private instruction per week and are required (a) to practice a minimum of nine hours per week, and (b) to elect in sophomore or junior year one other course offered by the department. In addition keyboard students are required to participate in a weekly session of ensemble playing, and string students to attend the weekly rehearsal of the Smith College Orchestra.

Students of voice have one hour of private instruction per week and are required (a) to practice a minimum of eight hours per week, (b) to sing with the glee club and (c) to elect in sophomore or junior year one other course offered by the department.

Private instruction will be given by members of the Departments of Music of Smith College and Mt. Holyoke College. A fee of \$75 per semester will be charged to cover this special type of instruction. *Elective for Sophomores and qualified Freshmen with the consent of the Department and of the instructor. First semester.*

30. APPLIED MUSIC. 3 credit hrs.

A continuation of Music 29. *Elective for Sophomores and qualified Freshmen with the consent of the Department and of the instructor. Second semester.*

41. SYMPHONIC MUSIC. PROFESSOR V. MORGAN. 3 credit hrs.

The development of orchestral literature from Haydn through Brahms; the symphony, concerto, and symphonic poem. Requisite: Music 25 or the consent of the Department. Three hours of classroom work per week. *Elective for Juniors. First semester.*

42. MUSIC SINCE 1900. MR. ALEXANDER. 3 credit hrs.

The musical scene in Europe and in the United States during the twentieth century. Analyses of works by Schönberg, Stravinsky, Bartók, Hindemith, Copland and others. Requisite: Music 25 or the consent of the Department. Three hours of classroom work per week. *Elective for Juniors. Second semester.*

43. CHORAL MUSIC. MR. ALEXANDER. 3 credit hrs.

A study of the important role played by the madrigal, motet, mass, oratorio and other forms of choral composition in the history of Western music. Representative examples from the Middle Ages to the present day will be examined and compared. Requisite: Music 25 or the consent of the Department. Three hours of classroom work per week. *Elective for Juniors. First semester.*

44. BEETHOVEN. PROFESSOR V. MORGAN. 3 credit hrs.

A study of the piano, chamber, and orchestral music. Requisite: Music 25 or the consent of the Department. Three hours of classroom work per week. *Elective for Juniors. Second semester in alternate years. (Omitted 1960-61.)*

45. BACH. PROFESSOR MISHKIN. 3 credit hrs.

The Bach style studied in relation to the development of music from 1600. Requisite: Music 25 or the consent of the Department. Three hours of classroom work per week. *Elective for Juniors. First semester in alternate years. (Omitted 1960-61.)*

46. THE OPERA. PROFESSOR V. MORGAN.

3 credit hrs.

The development of the musical drama with emphasis on a detailed study of operatic types. Representative works by Mozart, Verdi, and Wagner. Requisite: Music 25 or the consent of the Department. Three hours of classroom work per week. *Elective for Juniors. Second semester in alternate years.*

47. CHROMATIC HARMONY AND ANALYSIS. PROFESSOR MISHKIN. 3 credit hrs.

A continuation of Music 23-24 with emphasis on the harmonic idioms of the nineteenth century. Composition in the smaller forms. Requisite: Music 24. Three hours of classroom work per week. *Elective for Juniors. First semester.*

48. TONAL COUNTERPOINT. PROFESSOR MISHKIN.

3 credit hrs.

Contrapuntal technique of the eighteenth century, invertible counterpoint, canon, and two part inventions. Requisite: Music 24. Three hours of classroom work per week. *Elective for Juniors. Second semester.*

49. MUSIC OF THE ROMANTIC PERIOD. PROFESSOR V. MORGAN. 3 credit hrs.

A study of the Romantic idioms with special reference to the chamber music, piano music and Lieder of Schubert, Schumann, Mendelssohn, Chopin, Liszt, Brahms and Wolf. Requisite: Music 25 or the consent of the Department. *Elective for Juniors and qualified Sophomores. First semester in alternate years. (Omitted 1960-61.)*

52S. MOZART AND THE CLASSICAL STYLE. PROFESSOR MISHKIN. 3 credit hrs.

A study of the classical idiom with special reference to the instrumental and vocal music of W. A. Mozart. Requisite: Music 25 or the consent of the Department. *Elective for Juniors and qualified Sophomores. Normally second semester in alternate years. First Semester.*

53. SPECIAL STUDIES IN MUSICAL ANALYSIS.

3 credit hrs.

THE DEPARTMENT.

An historical-analytical approach to the study of style. Representative examples of the motet, pre-fugal forms, and variation will be analyzed in detail. Limited to 12 students. One two-hour seminar per week. Requisite: Music 23, 24, 25 and the consent of the Department. *Elective for Seniors. First semester.*

54. SPECIAL STUDIES IN MUSICAL ANALYSIS.

3 credit hrs.

THE DEPARTMENT.

A continuation of Music 53. Representative examples of the madrigal, binary form, and the art song will be analyzed in detail. Requisite: Music 53. *Elective for Seniors. Second Semester.*

79. CONFERENCE COURSE. The Department. 6 credit hrs.
 Studies in history or advanced theory. *Elective for qualified Seniors. First semester.*

80. CONFERENCE COURSE. The Department. 6 credit hrs.
 A continuation of Music 79. *Elective for qualified seniors. Second semester.*

Philosophy

Professor KENNEDY;† Associate Professors EPSTEIN, GOULD and KENNICK.
 Visiting Professor LALEROWITZ.

Note: The courses open to Sophomores: Introduction to Philosophical Literature, Ethics, Logic, and History of Philosophy, may count towards a major in Philosophy. All majors in Philosophy are required to take Philosophy 43 and 44.

Candidates for the degree with honors in Philosophy are required to take the courses numbered 23, 24, 43, 44, 79, and 80, and will elect their further courses with the approval of the Department. Each candidate will write, in conjunction with the conference courses in the senior year, an original essay on a topic which has been approved by the Department. He will take, early in May of senior year, two written and one oral examinations. One written examination will be on the general history of European and American Philosophy. The other written examination will be on some field of philosophy which the candidate may select, with the approval of the Department—metaphysics and philosophy of science, logic and theory of knowledge, ethics and social philosophy, aesthetics, history and philosophy of religion. The oral examination will be a defense by the candidate of his original essay before a committee of members of the Philosophy and affiliated Departments. Recommendation for the various degrees of honors will be made by the Department on the basis of the original essay and the three examinations.

Majors and majors with honors may also be taken in the following combined fields:

- Philosophy and Classics
- Philosophy and English
- Philosophy and History
- Philosophy and Political Science
- Philosophy and Psychology
- Philosophy and Religion

† Absent on leave first semester.

The selection of courses to constitute such combined majors, the topic for an original essay and the arrangements for comprehensive examinations must in each case be approved by representatives of the two departments concerned. Recommendation for the various degrees with honors will be made by committees composed of members of the two departments concerned.

21. INTRODUCTION TO PHILOSOPHICAL LITERATURE. 3 credit hrs.
Professor EPSTEIN.

Training in the reading of philosophical literature. Classical and contemporary authors, chosen to exemplify the different basic types of philosophical thought, will be discussed. This course may be taken to meet part of the sophomore requirement in connection with the Humanities. Three class hours per week. *Elective for Sophomores. First semester.*

- 21S. INTRODUCTION TO PHILOSOPHICAL LITERATURE. 3 credit hrs.
Professors KENNICK and KENNEDY.

Training in the reading of philosophical literature. Classical and contemporary authors, chosen to exemplify the different basic types of philosophical thought, will be discussed. This course may be taken to meet part of the sophomore requirement in connection with the Humanities. Three class hours per week. *Elective for Sophomores. Second semester.*

23. LOGIC AND SCIENTIFIC METHOD. Professor LAZEROWITZ. 3 credit hrs.

The study of formal inference: Truth-functions, generalization, classes, the syllogism. The course is intended to give training in the effective use of principles of correct thinking. Three class hours per week. *Elective for Sophomores. First semester.*

24. ETHICS. Professor KENNEDY. 3 credit hrs.

The bases of morality; theory of the moral life; moral issues involved in social problems. This course may be taken to meet part of the sophomore requirement in connection with the Humanities. Three class hours per week. *Elective for Sophomores. Second semester.*

26. INTRODUCTION TO THE PHILOSOPHY OF SCIENCE. 3 credit hrs.
Professor EPSTEIN.

An examination of experimental and theoretical procedures of the physical and social sciences. Fundamental and Derived Measurement, Comparative and Quantitative concepts, Definition and Reduction as methods of concept formation are among the subjects studied in their relations to the logic of Prediction and Explanation and to the Verification and Falsification of theoretical systems. The results are brought to

bear on such representative views in the philosophy of science as Emergentism, Operationalism, Positivism and Logical Empiricism. Three class hours per week. *Elective for Sophomores. Second semester.*

41S. PHILOSOPHY OF EDUCATION. PROFESSOR KENNEDY. 3 credit hrs.

A comparative and critical study of contemporary theories of education, in terms both of their historical origins and of current problems and controversies. Three class hours per week. *Elective for Juniors. Second semester. (Omitted 1960-61.)*

43. HISTORY OF ANCIENT AND MEDIEVAL PHILOSOPHY. 4 credit hrs.
PROFESSOR KENNICK.

A survey of European philosophy from the early Greeks to the end of the Middle Ages, with emphasis on Plato, Aristotle, the Stoics, the Epicureans and some Christian philosophers. Reading and discussion of selected works of the period. Four class hours per week. *Elective for Sophomores. First semester.*

44. HISTORY OF MODERN PHILOSOPHY. PROFESSOR EPSTEIN. 4 credit hrs.

A survey of European philosophy in the seventeenth, eighteenth, and nineteenth centuries, with emphasis on Descartes, Spinoza, Locke, Hume, and Kant. Reading and discussion of selected works of the period. Four class hours per week. *Elective for Sophomores. Second semester.*

45. PHILOSOPHY OF RELIGION. PROFESSOR PEMBERTON. 3 credit hrs.

(Same course as Religion 45.) An examination of some basic religious concepts in the light of philosophical analysis. Among topics to be considered are the nature and status of religious knowledge, the existence and nature of God, and some religious views of human nature and conduct. Three class hours per week. *Elective for Juniors. First semester. (Omitted 1960-61.)*

47. AMERICAN PHILOSOPHY. PROFESSOR EPSTEIN. 3 credit hrs.

A study of the modern period in American thought. *Elective for Juniors. First semester.*

49. CONTEMPORARY RELIGIOUS THOUGHT. 3 credit hrs.
PROFESSOR PEMBERTON.

(Same course as Religion 49.) *Elective for Juniors. First semester.*

51. AESTHETICS. PROFESSOR KENNICK. 3 credit hrs.

A comparative and critical examination of the principal theories of the nature of art, the creative process, aesthetic experience, "beauty" or aesthetic value, and of the principles of appreciation and the standards of

criticism. Special emphasis is placed upon the thought of modern philosophers and critics. Three class hours per week. *Elective for Juniors. First semester.*

53. PLATO AND ARISTOTLE. PROFESSOR GOULD. 4 credit hrs.

(Same course as Classics 53.) Several major works by each of these philosophers will be read in their entirety and discussed in class. The chief aim of the course will be to achieve a comprehension of the major philosophical positions of these writers, though some attention will also be paid to the historical development, the antecedents, and the subsequent influence of their ideas. All readings will be in English. Three class hours per week. *Elective for Juniors. Limited to twenty-five students. First semester.*

71. REPRESENTATIVE PHILOSOPHERS. 4 credit hrs.

Professors KENNICK and LAZEROWITZ.*

A critical examination of selected philosophical arguments, drawn from the history of philosophy, including the recent past, and of the positions which they purport to establish; together with an attempt to explain the nature of these arguments, with particular attention being given to the problem of antinomies. To be offered at both Smith and Amherst Colleges. Requisite. Two semester courses in philosophy, or the consent of the instructors. One two-hour period per week. *Elective for Juniors. First semester.*

72. REPRESENTATIVE PHILOSOPHERS. PROFESSOR KENNEDY. 4 credit hrs.

A critical examination of various attempts to formulate a methodology for the social sciences. Among the topics considered are: the nature of social action; personality, society and culture; the sociology of knowledge; "historicism" and "scientism;" scientific method and value judgments; the relation between social theory and social policy. The readings will be chosen from such writers as Marx, Durkheim, Weber, Freud, Mannheim, Radcliffe-Brown, Myrdal and Dewey. Requisite: a grade of B in two semester courses in one of the following subjects: philosophy, psychology, political science, economics or history. One two-hour period per week. *Elective for Juniors. Limited to fifteen students. Second semester.*

74. METAPHYSICS. PROFESSOR KENNICK. 1 credit hr.

A comparative and critical examination of some metaphysical concept (e.g., Substance, Event, Time) or of the answers, both classical and modern, to some metaphysical question. This examination will not be made for historical purposes but will presuppose some knowledge of the major figures in the history of philosophy. Requisite: Philosophy 43 and Philosophy 44, or the consent of the instructor. One class hour per week. *Elective for Seniors. Second semester.*

*Prof. Morris Lazerowitz is a member of the Philosophy Department at Smith College; the course is given in alternate weeks at Amherst and Smith.

79. CONFERENCE COURSE. The Department.

4-8 credit hrs.

Required of candidates for honors in philosophy. Detailed outline of thesis and adequate bibliography for project required before Thanksgiving; preliminary version of substantial portion of thesis by end of semester. *Elective for Seniors. First semester.*

80. CONFERENCE COURSE. The Department.

4-8 credit hrs.

Required of candidates for honors in philosophy. *Elective for Seniors. Second semester.*

Physical Education

Professors ECKLEY, LUMLEY, ‡ RICHARDSON and WILSON; Associate Professors DUNBAR, McCABE, OSTENDARP and ROSTAS. Assistant Professors MILLER and SERUES. Messrs. SCANDRETT and VAN PETERSILGE.

Complete physical examination, physical fitness tests, special exercises for individual development and a program of instruction and participation in team games and sports. *Required for Freshmen and Sophomores and men who have not met the department standards in swimming, fitness, team games, and recreational sports.*

Physics

Professors ARONS, BENSON, and SOLLER; Associate Professors ROMER and TOWNE; Assistant Professors DEMPESEY and GORDON.

Any student considering the possibility of majoring in physics should seek the advice of a member of the physics staff as early as possible in order to plan his program wisely. This program will vary with the student's interest and ability. For example, besides the program intended for those who intend to go on for graduate work, there are other programs more appropriate for students who need a good background in physics either as teacher in secondary schools, or in industry or business on a non-engineering basis. Provision is also made for a major in the important and rapidly growing field of biophysics.

Course Requirements

The following courses are required for all physics majors: Physics 24, 51, 52, 53, 76S, Science 43 (or Mathematics 34), and in addition to these, certain courses as listed below. Physics majors will attend the Physics Seminar during their junior year, and will participate actively in it in the senior year.

a) *Major (rite)*: Either Physics 56 or 77. The balance of the 30 hours required for any major may be satisfied by any combination of the follow-

‡ Absent on leave second semester.

ing: any other physics courses, any course in Astronomy, Mathematics 23, 31, 32; Chemistry 24, 41, 42.

b) *Major with honors*: Physics 54, 75, 79, 80; Mathematics 31, 32. Any student who intends to do graduate work in physics should register for honors work, but the honors program is available to other qualified students as well. It is practically imperative that a student who wishes to do graduate work in physics take courses Physics 51, 52, 53, and 54 in his Junior year, and Physics 75 and 76 in his Senior year.

The aim of honors work in physics is to provide an opportunity for the student to develop under faculty direction his ability and interest in individual investigation, and his skill in experimental or theoretical techniques. The primary fields of experimental research in progress in the department are low temperature physics, nuclear magnetic resonance, and mass spectrometry and oceanography. In addition, however, experimental equipment is available for work in some phases of magnetism, ultrasonics, optics, electronics, and nuclear physics. The student is given facilities to review the literature in the field chosen, to design, construct and assemble his experimental equipment, and to make observations. During the spring, he is required to present his work in the Physics Seminar, and to prepare a thesis, which is due on May 1.

In addition, the honors student is required to take comprehensive examinations, two written and one oral. The first written examination is given at the end of the first semester of the senior year and is designed to test his grasp of fundamental physical principles. The student's achievement on this examination, together with his progress on his honors problem, will determine the advisability of his continuing the honors program. The purpose of the second written examination, which is given during the latter part of May, is to test the student's comprehension of the basic ideas and methods of the more advanced phases of physics.

The departmental recommendation for the various degrees of honors will be based on the student's record in the Department, the honors work, and the comprehensive examinations.

c) *Major in biophysics*: Students interested in majoring in Biophysics should consult the separate Biophysics listings.

- | | |
|---|---------------|
| 1. Same course as Science 1. | 4 credit hrs. |
| 2. Same course as Science 2. | 4 credit hrs. |
| 23. INTERMEDIATE PHYSICS. PROFESSOR BENSON. | 4 credit hrs. |

A course designed primarily for students not majoring in the physical sciences, extending the work done in Science 1, 2 and discussing more fully such topics as thermodynamics and kinetic theory, electricity, and modern physics. Four hours of lectures and classroom discussions, and one labora-

tory period per week. Prerequisite: Science 1, 2. *Elective for Sophomores. First semester.*

24. INTRODUCTORY COURSE FOR PHYSICS MAJORS. 4 credit hrs.
Professor DEMPSEY.

A course which takes various blocks of subject matter and essential physical concepts not covered in Science 1, 2, with emphasis on areas such as the first and second laws of thermodynamics, electrical and mechanical oscillations, and electric and magnetic fields. This course is a prerequisite for all following physics courses, and is therefore required for all physics majors. Students not majoring in physics but who intend to include advanced physics courses in their program should elect this course rather than Physics 23. Four hours of lectures and classroom discussions and one laboratory period per week. Prerequisite: Science 1, 2, Math 3, unless exception is granted in advance by the instructor. *Elective for Sophomores. Second semester.*

51. MECHANICS. Professor DEMPSEY. 3 credit hrs.

Newtonian dynamics of particles from a vector point of view. Special emphasis is placed upon central force and periodic motions. Three hours of lectures and discussions per week. Requisite: Physics 22, Mathematics 3. *Elective for Juniors. First semester.*

52. WAVE PHENOMENA. Professors TOWNE and GORDON. 4 credit hrs.

General characteristics of wave motion—the wave equation, energy relationships, diffraction, interference, reflection, refraction and polarization. Each phenomenon will be discussed in the context of either optics or acoustics depending upon the relative importance of its applications in the two fields. Four hours of lectures and problems and one laboratory period per week. Requisite: Physics 51. *Elective for Juniors. Second semester.*

53. ELECTRICITY AND MAGNETISM I. 4 credit hrs.
Professors SOLLER and ROMER.

Fundamentals of electrical and magnetic measurements, and fundamental direct- and alternating-current theory, including bridge methods and coupled circuits. Three hours of lectures and discussion, and one laboratory period per week. Requisite: Physics 22, Math 3, and concurrent registration in Physics 51, except by special permission of the instructor. *Elective for Juniors. First semester.*

54. ELECTRICITY AND MAGNETISM II. Professor BENSON. 3 credit hrs.

Introduction to electromagnetic theory, employing vector methods throughout. Potential theory, electrostatics, electric currents, magnetism, induced emfs, Maxwell's equations, electromagnetic waves, and Poynting's

theorem. Three hours of lectures and discussions per week. Requisite: Physics 51, 53, Mathematics 31, 32 (concurrent). *Elective for Juniors. Second Semester.*

56. ELECTRONICS. Professor SOLLER. 3 credit hrs.

Characteristics of vacuum and gas filled thermionic tubes and solid state semiconductors, and their application in a variety of circuits, with emphasis on circuits which are important in scientific work, rather than in communication. Two lectures or discussions, and one laboratory period per week. Enrollment in course limited. Requisite: Physics 53 and the consent of the instructor. *Elective for Juniors. Second semester.*

73S. THEORETICAL PHYSICS. Professor ROMER. 4 credit hrs.

Advanced dynamics. Lagrangian and Hamiltonian formulations of classical mechanics; variational principles; Canonical transformations; Hamilton-Jacobi theory. Four hours of lectures or seminars per week. Requisite: Physics 52 and the consent of the instructor. *Elective for Seniors. Second semester.*

75. THERMODYNAMICS. Professor ARONS. 4 credit hrs.

Generalization of the ideas of work, heat, energy. Mathematics of thermodynamics. First and Second Laws with applications to one component systems. Thermodynamic functions as criteria of equilibrium. Interpretation of thermodynamic laws and functions in terms of the behavior of aggregations of atoms and molecules. Requisite: Physics 52, 54. *Elective for Seniors. First semester.*

76S. MODERN PHYSICS. Professor GORDON. 4 credit hrs.

Changes in views of space, time, matter and radiation resulting from 20th century developments in physics. Special theory of relativity, black-body radiation, photo-electric effect, quantum theory of specific heats of solids and gases, Bohr's quantum theory, the wave aspects of matter and an introduction to the Schrödinger equation and the Heisenberg uncertainty principle. Application of the Schrödinger equation to some atomic systems. The exclusion principle and the modern explanation of the periodic table. Some topics from nuclear physics. Requisites: Physics 52 and 53. *Elective for Seniors. First semester.*

77S. ADVANCED LABORATORY. Professor GORDON. 2 credit hrs.

An introduction to some techniques which are essential in experimental physics, and selected modern physics experiments. Machine shop work, the Millikan oil-drop experiment, the Franck-Hertz and photo-electric experiments, nuclear magnetic resonance, nuclear counting procedures. Other experiments can be chosen by the student. Four hours of laboratory per week. *Elective for Senior physics majors. Second semester.*

79-80. HONORS COURSE. The Department.

4-8 credit hrs.

Individual, independent work on some problem, usually in experimental physics. Reading, consultation and seminars, and laboratory work. *Elective for Seniors who have been admitted to the honors program. First and second semester.*

Political Science

Professors LATHAM, LOEWENSTEIN, and ZIEGLER;
Assistant Professors BACON, KATEB and KESSEL; Mr. LITT.

Note: A major in political science consists of eight courses in political science. All majors are required to take 21 or 21S, Introduction to Political Science, and 31, American Government. For majors in the Department, 21 or 21S is a prerequisite or corequisite for all courses in the Department. In addition, the Department requires each major to take one of the courses in each of the following fields: Comparative Government, International Law and Relations, and Political Theory. Rite majors must take a seminar course in the Department in either their Junior or Senior year. Students not majors in the Department may take any course in the Department with the consent of the instructor.

The honors program is designed to provide students through advanced work in political science, with the full opportunity for independent research and writing. In addition to the courses prescribed for all majors, honors candidates are required to take 79 and 80, and to prepare a substantial thesis based upon independent research, upon which they will be examined orally. In addition, they will be required to pass a written comprehensive examination on the four fields offered by the Department, in the spring of their Senior year.

21. INTRODUCTION TO POLITICAL SCIENCE. PROFESSOR LATHAM. 4 credit hrs.

An analytical treatment of the role of politics in human society. Attention will be given to the theoretical and historical bases of political institutions, the social roots of political behavior, and the characteristics of the political process. Four hours of classroom work a week. Prerequisite or corequisite for all Political Science courses taken by Political Science majors. *Elective for Sophomores. First semester.*

21S. INTRODUCTION TO POLITICAL SCIENCE.

4 credit hrs.

Professor LATHAM.

Same description as above. Prerequisite or corequisite for all Political Science courses taken by Political Science majors. *Elective for Sophomores. Second semester.*

24. PATTERNS OF GOVERNMENT. PROFESSOR LOEWENSTEIN. 4 credit hrs.

A comparative study of the functions, techniques, and institutions of political society as reflected by the different forms of states and government, with special emphasis on the theory and practice of contemporary democratic and autocratic government. Four hours of classroom work per week. *Elective for Sophomores. Second semester. (Omitted 1960-61.)*

25. AMERICAN CONSTITUTIONAL DEVELOPMENT. 4 credit hrs.

Professor LATHAM.

The development of American constitutional philosophy since 1787 under three general heads: the Agrarian Constitution, the Laissez-Faire Constitution, and the Welfare Constitution. Topics will include the Marshall and Taney eras, constitutional problems of slavery, the Civil War and Reconstruction, the constitutional foundations of 19th century capitalism, constitutional problems of federal and state regulation, civil liberties in the 20th century, the constitutional crisis of 1935-1937, and current problems of constitutional interpretation. Attention will be given to the judicial philosophies of the Federalist and Jacksonian judges, Field, Miller, Waite, Harlan, Holmes, Brandeis, Stone, Black, and Frankfurter. Four hours of classroom work per week. *Elective for Sophomores. First semester.*

27. POLITICAL PARTIES. PROFESSOR KESSEL. 4 credit hrs.

The role of people, parties and pressure groups in the politics of American democracy. Attention will be devoted to: campaign activities of the candidates; party support for the candidates; voting behavior; sectional and historic roots of national politics; the institutional politics of Congress and the Presidency; the competition for power among business, labor, agriculture, and the other major organized interests. Three hours of classroom work per week plus participation and further work in political campaigns. *Elective for Sophomores. First semester.*

29. INTERNATIONAL POLITICS. PROFESSOR LOEWENSTEIN. 3 credit hrs.

A critical analysis of the forces and techniques engaged in the ideological power conflict in the Mid-Twentieth century. The course will deal with the material and psychological elements of national power, the foreign policy of the Great Powers, the role of law, diplomacy and violence in present day world politics, and the prospects of peace or war in a bipolarized world. Three hours of classroom work per week. Students enrolled in this course are required to enroll also in Political Science 35 as a fourth credit hour. *Given in alternate years. Elective for Sophomores. First semester. (Omitted 1960-61.)*

31. AMERICAN GOVERNMENT. PROFESSOR ZIEGLER. 4 credit hrs.

An introduction to the major problems of American democracy; their political, economic, and social implications and their historical evolution.

Politics and administration in their relation to constitutional government, federalism, suffrage, governmental functions, etc. Required for all majors in the Department. Four hours of classroom work per week. *Elective for Sophomores. First semester.*

35. ISSUES OF INTERNATIONAL POLITICS. PROFESSOR LOEWENSTEIN. *1 credit hr.*

An analysis of relevant topics and currents of contemporary international politics. The selection of the issues will be conditioned by their significance for the conflict between power politics and peaceful cooperation. Lectures and discussion. One hour of classroom work per week. *Elective for Juniors. The course must also be taken by Sophomores simultaneously enrolled in Political Science 29. First semester. (Omitted 1960-61.)*

41. THE ADMINISTRATION OF PUBLIC POLICY.

4 credit hrs.

PROFESSOR KESSEL.

An introduction to the problem of bureaucracy in American government with attention to social factors that shape and condition administrative structures; group behavior in administrative agencies; the theory of organization in its formal and informal aspects; the political setting of public administration; problems involved in the formulation of American foreign policy. Four hours of classroom work per week. *Elective for Juniors. Limited to twenty students. First semester.*

42. ADMINISTRATIVE LAW. PROFESSOR ZIEGLER.

4 credit hrs.

An introduction to the American system of legal control exercised by other law administering agencies than the courts, with special reference to doctrines developed by the Interstate Commerce Commission, Securities and Exchange Commission, Federal Trade Commission, and the National Labor Relations Board. The course deals with the formulation of legislative purposes and administrative policies; administrative and judicial responsibility for the enforcement of agency programs; and the nature and extent of judicial control over administrative action. Three hours of classroom work per week. Requisite: Political Science 25 or Political Science 41. *Elective for Juniors. Limited to 25 students. Second semester.*

44. INTERNATIONAL LAW. PROFESSOR ZIEGLER.

4 credit hrs.

The historical basis and present trends in the development of international law will be discussed and related to the social, economic, and political aspects of present day world politics and government. Four hours of classroom work per week. *Elective for Juniors. Second semester. (Omitted 1960-61.)*

45. COMPARATIVE POLITICAL INSTITUTIONS.

4 credit hrs.

Professor LOEWENSTEIN.

A pragmatic approach to the causes and manifestations of the present world revolution, focusing on the political transformation under way in the various states and on the correlation of social structure and political organizations. Major attention will be paid to important political documents. One three-hour seminar each week. *Elective for Juniors with the consent of the instructor; limited to fifteen students with the consent of the instructor. First semester.*

46. THE ORGANIZATION OF THE INTERNATIONAL SOCIETY.

4 credit hrs.

Professor LOEWENSTEIN.

A study of the political, economic, and social forces shaping international relations and their attempted solutions through international organization, with special emphasis on the United Nations and other methods of international cooperation. The course will be geared as closely as possible to current developments on the international scene. One three-hour seminar each week. *Elective for Juniors with the consent of the instructor; limited to fifteen students. Second semester.*

48. PROBLEMS IN PUBLIC POLICY AND ADMINISTRATION.

4 credit hrs.

Professor LATHAM.

Selected topics in public policy and administration. One two-hour classroom meeting a week. *Elective for Juniors. Limited to twenty-five students with the consent of the instructor. Second semester.*

50. STATE AND LOCAL POLITICS. Professor KESSEL.

3 credit hrs.

Patterns of decision-making in small, medium-size, and large communities; problems of leadership in metropolitan areas; variations in the political setting of state government; the institutional politics of the legislature and the new governorship. Three hours classroom work per week. *Elective for Juniors. Second semester.*

52. URBAN PROBLEMS. Professor BACON.

4 credit hrs.

A study of urban growth and development from earliest times to the present day. Consideration will be given to economic, political, social and technological aspects. Special emphasis will be put on the critical contemporary problems of urban growth in such areas as government, housing, transportation, recreation, aesthetics, social institutions, zoning, city planning, industrial development and urban renewal. Three hours of classroom work per week, plus field work. *Elective for Juniors. Second semester.*

55. AMERICAN POLITICAL THEORY. Professor KATEB. *3 credit hrs.*

A survey of major ideological conflicts in American thought from colonial times to the present, with emphasis upon the evolving concept of American democracy. Special attention to democratic and anti-democratic assumptions embodied in radical, liberal, conservative, and socialist theories of state and society as they have appeared in America. Where appropriate, the relation between American and European political theory will be considered. Alternates with Political Science 27. Three hours of classroom work per week. *Elective for Juniors with the consent of the instructor. First semester. (Omitted 1960-61.)*

57. POLITICAL THEORY FROM PLATO TO MACHIAVELLI.
Professor KATEB. *4 credit hrs.*

A study of some of the major writers who have dealt with questions of political practice and political morality in a systematic way. Readings and discussion. Three hours of classroom work per week. *Elective for Juniors. Limited to twenty-five students. First semester.*

58. POLITICAL THEORY FROM HOBBS TO THE PRESENT.
Professor KATEB. *4 credit hrs.*

A study of some of the major writers who have dealt with questions of political practice and political morality in a systematic way. Four hours of classroom work per week. *Elective for Juniors. Second semester.*

71S. PUBLIC OPINION. Professor KESSEL. *4 credit hrs.*

The role of public opinion in the politics of American democracy. Attention will be devoted to: measurement of opinion; the psychological organization of attitudes; the social and cultural sources of opinion; the rise, content, and impact of the mass media; politics in an era of mass communications. Three hours of classroom work per week plus participation in the design, administration and analysis of an opinion survey. *Elective for Juniors. Second semester.*

79-80. HONORS COURSE. The Department. *6 credit hrs.*

Elective for Seniors who have satisfied the necessary requirements. First and second semesters.

Psychology

Professors KOESTER ‡ and COPLIN; Associate Professors BIRNEY and GROSE;
Assistant Professor DAVENPORT.

The offerings of the Psychology Department consist of two sets of courses: (a) general education courses in selected areas of psychological inquiry; (b) courses for students who major in psychology. The program of work

‡ Absent on leave second semester.

for majors is designed to give the student a grasp of the major findings and developments in the field of psychology. The "core" portion of this program is made available in four consecutive semester courses offered during the junior and senior years and is arranged so that continual advantage may be taken of prior learnings when new material is introduced. The work of the "major" courses is organized around primary and secondary sources and the methods of instruction vary with the nature of the material being considered. Considerable emphasis is placed on the seminar method of instruction. Majors will be given the opportunity to pursue topics in greater depth by means of taking "Independent Study Courses" during the second semester of the junior year and during both semesters of the senior year. Training in research and the analysis of empirically derived data are provided in a junior course in "Research Methods in Psychology" which is required of all majors during the junior year.

Students honoring in the department do so by electing Psychology 79-80 in the senior year and completing a research project under the direction of some member of the department.

The requirements of a major in psychology consist of the following: (a) election of courses entitled "Introduction to Psychology," "Research Methods in Psychology," the "Junior and Senior Courses for Majors"; (b) the election of a minimum of an additional ten credit hours of work which may be done by taking "Independent Study Courses," the "Senior Honors Course," courses given under the heading of "General Courses," or certain courses in other departments, especially Biology or Philosophy, that are closely related to work in psychology; (c) passing a comprehensive examination.

Any student planning to major in psychology should elect Psychology 21 in the sophomore year.

A. GENERAL COURSES

21. INTRODUCTION TO PSYCHOLOGY. PROFESSOR KOESTER. 4 credit hrs.

An introduction to the nature and varieties of psychological inquiry with emphasis upon empirical findings and conceptualized determinants of the behavior and experience of living organisms. Three lectures a week and a combination of laboratory and discussion sections. *Elective for Sophomores. First semester.*

21S. INTRODUCTION TO PSYCHOLOGY. PROFESSOR BIRNEY. 4 credit hrs.

Same course as Psychology 21. *Elective for Sophomores only. Second semester.*

22. GENERAL PSYCHOLOGY. PROFESSOR DAVENPORT. 3 credit hrs.

An analysis of psychological phenomena with emphasis upon experimental findings and principles derived therefrom. This course is designed

to increase the student's understanding of the various ways in which it is possible to formulate a diversity of psychological problems so as to make them amenable to experimental study. Three class meetings a week. *Elective for Sophomores. Second semester.*

26. ABNORMAL PSYCHOLOGY. Professor COPLIN. 3 credit hrs.

A study of the major classes of psychological disorder with particular attention to the causes and underlying mechanisms of the various abnormalities. Three class meetings per week. Requisite: Psychology 21. *Elective for Sophomores. Second semester.*

28. THE PSYCHOLOGY OF PERSONALITY. Professor KOESTER. 3 credit hrs.

An advanced treatment of approaches to the study of personality with emphasis upon relevant empirical findings and upon concepts that have been developed to understand the adjustments of the human organism to biological, social, and cultural events. Three class meetings a week. Requisite: Psychology 21. *Elective for Sophomores. Second semester.*

(Omitted 1960-1961)

43. EDUCATIONAL PSYCHOLOGY. Professor GROSE. 3 credit hrs.

A psychological analysis of the educational process. The course is designed both for the prospective teacher and those who have a general interest in the field of education. One two-hour seminar a week. Requisite: Psychology 21. *Elective for Juniors with the consent of the instructor. Limited to fifteen students. First semester.*

45-46. RESEARCH METHODS IN PSYCHOLOGY. 2 credit hrs. each semester.
Professors BIRNEY and DAVENPORT.

A course aimed at giving the student an understanding of the variety of research methods used in contemporary psychological analysis. Attention will be given to statistical techniques widely used in the analysis and interpretation of research. Two class meetings a week and a selected number of afternoon sessions for laboratory research. Required of students majoring in psychology. Requisite: Psychology 21. *Elective for Juniors in the first and second semesters.*

47. DEVELOPMENTAL PSYCHOLOGY. Professor DAVENPORT. 3 credit hrs.

A study of human development with emphasis upon the general characteristics of various stages of development from birth through adolescence and upon general determinants in the developmental process. Three class meetings a week. Requisite: Psychology 21. *Elective for Sophomores. First semester.*

49. SOCIAL PSYCHOLOGY. Professor BIRNEY. 3 credit hrs.

A social psychological analysis of individual and group behavior with applications to selected social issues. Three class meetings a week. Requisite: Psychology 21. *Elective for Juniors. First semester.*

51. MARRIAGE AND THE FAMILY. Professor COPLIN. *1 credit hr.*

An introduction to marriage and the family with emphasis upon psychological, biological, and sociological findings. One class meeting a week. *Elective for Juniors. First semester.*

B. PROGRAMS FOR MAJORS

Psychology 21. 45-46, 53-54, 73-74 are required of all majors. Psychology 56, 75, 76 may be elected by majors who are interested in opportunities for independent study. Psychology 79-80 is open to qualified senior majors.

21. INTRODUCTION TO PSYCHOLOGY.

Same as Psychology 21 in the "General Course" category. Offered during the first and second semesters.

45-46. RESEARCH METHODS IN PSYCHOLOGY.

Same as Psychology 45-46 in the "General Course" category.

53-54. JUNIOR COURSE FOR MAJORS. *3 credit hrs. each semester.*

Prerequisite: Psychology 21. *First and second semesters.*

56. INDEPENDENT STUDY COURSE. *1 to 3 credit hrs.*

Prerequisite: Psychology 53. Elective for Junior majors. *Second semester.*

73-74. SENIOR COURSE FOR MAJORS. *3 credit hrs. each semester.*

Prerequisite: Psychology 53-54. *First and second semesters.*

75, 76. INDEPENDENT STUDY COURSES. *1 to 3 credit hrs. each semester.*

Corequisite: Psychology 73-74. Elective for Senior majors. *First and second semesters.*

79-80. SENIOR HONORS COURSE. *4 credit hrs., first semester; 6 credit hrs., second semester.*

Corequisite: Psychology 73-74. *First and second semesters.*

Public Speaking

Messrs. ALLEN and SCANDRETT.

Note: The introductory courses, 21 and 22, are required of all sophomores except those who have demonstrated clear adequacy in oral communication in tests given in the freshman year by the Department. Students not exempted may be excused from Public Speaking 22 if the quality of their work in Public Speaking 21 justifies it.

Public Speaking 42 and 44 may be elected by students who have not taken Public Speaking 41 and 43.

21. FUNDAMENTALS OF ORAL EXPRESSION. *1 credit hr.*

Messrs. ALLEN and SCANDRETT.

One hour of classroom work per week. *Required of Sophomores. First semester.*

22. FUNDAMENTALS OF ORAL EXPRESSION. 1 credit hr.
Messrs. ALLEN and SCANDRETT.

One hour of classroom work per week. *Required of Sophomores. Second semester.*

41. EXTEMPORANEOUS SPEAKING; TECHNIQUES AND TYPES OF SPEAKING.
PSYCHOLOGY OF PERSUASION. 3 credit hrs.
Mr. ALLEN.

Requisite: A grade of "B" in Public Speaking 21-22 and the consent of the instructor. Three hours of classroom work per week. *Elective for Juniors; limited to thirty students. First semester.*

42. EXTEMPORANEOUS SPEAKING; TECHNIQUES AND TYPES OF SPEAKING.
PARLIAMENTARY PROCEDURE. 3 credit hrs.
Mr. ALLEN.

A continuation of Public Speaking 41. Three hours of classroom work per week. *Elective for Juniors; limited to thirty students. Second semester.*

43. ARGUMENTATION AND THE FORMS OF PUBLIC ADDRESS. 4 credit hrs.
PARLIAMENTARY PROCEDURE.
Mr. ALLEN.

A critical study of techniques effective in persuasion; oral and written composition. Requisite: A grade of "B" in Public Speaking 21-22 and the consent of the instructor. Three hours of classroom work per week. *Elective for Juniors; limited to fifteen students. First semester. (Omitted 1960-61.)*

44. ARGUMENTATION AND THE FORMS OF PUBLIC ADDRESS. 4 credit hrs.
Mr. ALLEN.

A study of the application of behavioristic and Aristotelian techniques; oral and written composition. Three hours of classroom work per week. *Elective for Juniors; limited to fifteen students. Second semester. (Omitted 1960-61.)*

Religion

Associate Professor B. MORGAN and Assistant Professor PEMBERTON.

All courses in religion may count towards a major, which shall consist of Religion 21, 22, Introduction to Religion, and six additional semester courses in religion or related studies approved by the Department.

Of these six additional courses at least three must be courses in religion, and it is recommended that they include Philosophy 43, 44, History of Philosophy.

Students definitely committed to a pre-theological course are not encouraged to major in religion, though they should take at least one basic course in the field.

Honors in religion shall consist of the Conference Course Religion 79, 80 taken in conjunction with a major in religion; satisfactory fulfillment of

the general honors requirements of the college; satisfactory performance in written comprehensive examinations on the general history of religious traditions and on Bible, Philosophy of Religion, or some other area of special interest to the student; and the preparation and oral defense of a scholarly essay on a topic approved by the Department.

21. INTRODUCTION TO RELIGION. PROFESSOR B. MORGAN. 4 credit hrs.

The origins and nature of religion. Basic beliefs and practices of Confucianism, Hinduism, Buddhism, Judaism, and Islam as reflected in their scriptures and institutions. May be elected to fulfill part of the Humanities requirement. Four hours of classroom work per week. *Elective for Sophomores. First semester.*

22. INTRODUCTION TO RELIGION. PROFESSOR B. MORGAN. 4 credit hrs.

The Christian heritage as reflected in the New Testament and the Christian classics. Basic Catholic and Protestant doctrines and practices. Some current trends in religious thought: modernism, humanism, and the new orthodoxy. May be elected to fulfill part of the Humanities requirement. Four hours of classroom work per week. *Elective for Sophomores. Second semester.*

23. THE OLD TESTAMENT. PROFESSOR PEMBERTON. 4 credit hrs.

Foundations of the Hebrew-Christian tradition in the literature and life of the Old Testament. May be elected to fulfill part of the Humanities requirement. Four hours of classroom work per week. *Elective for Sophomores. First semester.*

24. THE NEW TESTAMENT. PROFESSOR PEMBERTON. 4 credit hrs.

Foundations of the Christian tradition in the literature and life of the New Testament. May be elected to fulfill part of the Humanities requirement. Requisite: Religion 21 or 23, or consent of the instructor. Four hours of classroom work per week. *Elective for Sophomores. Second semester.*

45. PHILOSOPHY OF RELIGION. PROFESSOR PEMBERTON. 3 credit hrs.

An examination of some basic religious concepts in the light of philosophical analysis. Among topics to be considered are the nature and status of religious knowledge, the existence and nature of God, and some religious views of human nature and conduct. Three hours of classroom work per week. *Elective for Juniors. First semester. (Omitted 1960-61.)*

48. RELIGION IN AMERICA. PROFESSOR B. MORGAN. 3 credit hrs.

A survey of the main currents of religious thought in America from Colonial times to the present. *Elective for Juniors. Second semester. (Omitted 1960-61.)*

49. CONTEMPORARY RELIGIOUS THOUGHT. PROFESSOR PEMBERTON.

3 credit hrs.

Analysis and comparison of the views of selected contemporary theologians and religious philosophers. (Same course as Philosophy 49.) Three hours of classroom work per week. *Elective for Juniors. First semester.*

52. CHRISTIANITY IN MODERN WESTERN CULTURE.

Professor B. MORGAN.

3 credit hrs.

A critical study of the relation of Christian theology to ethics through an analysis of the treatment of such dominant issues as church and state, love and justice, freedom and order by several Roman Catholic and Protestant theologians. *Elective for Juniors. Second semester*

79. CONFERENCE COURSE. The Department.

4-8 credit hrs.

Selected topics of study; required of candidates for honors in religion. Detailed outline of thesis and adequate bibliography for project required before Thanksgiving; preliminary version of substantial portion of thesis by end of semester. *Elective for Seniors with the consent of the instructors. First semester.*

80. CONFERENCE COURSE. The Department.

4-8 credit hrs.

Selected topics of study; required of candidates for honors in religion. *Elective for Seniors with the consent of the instructors. Second semester.*

Russian

Messrs. DAVIS and RUBIN.

1. ELEMENTARY COURSE. Mr. RUBIN.

4 credit hrs.

Pronunciation, grammar, oral practice. Four hours per week of grammar and two hours of oral practice. *Elective for Freshmen. First semester.*

2. INTERMEDIATE COURSE. Mr. RUBIN.

4 credit hrs.

Four hours of grammar and two hours oral practice each week. Reading and analysis of selected texts. *Elective for Freshmen. Second semester.*

3. ADVANCED COURSE. Mr. DAVIS.

4 credit hrs.

Reading and analysis of selected literary texts with some review of grammar and pronunciation. Four hours per week of reading and two hours oral practice. *Elective for Freshmen. First semester.*

4. ADVANCED COURSE. Mr. DAVIS.

4 credit hrs.

Reading of literary texts from the 19th century and the modern period. Four hours per week of reading and two hours oral practice. *Elective for Freshmen. Second semester.*

Science

SCIENCE 1. Professors ARONS and BROWN in charge.

4 credit hrs

A course in physical science and mathematics. The objectives of the course are: to show what is meant by a scientific concept and how scientists construct a conceptual scheme to obtain a deeper understanding of physical phenomena; to show how scientists work and reason and how such reasoning has led to discoveries which have influenced the development of our culture and the outlook of man toward the world around him; to impart some knowledge of physical laws and phenomena, particularly those which affect our everyday lives and actions.

To achieve these ends, no attempt is made to cover a wide range of subjects in the fields of physics and mathematics; rather, a limited number of subjects is studied with some care, so as to develop a more profound understanding than would otherwise be possible.

In physics, topics are selected from mechanics in such a way as to develop an understanding of the ideas which led to Newton's formulation of the laws of mechanics and the theory of gravitation and thence to indicate the impact which the Newtonian synthesis has had on the subsequent development of science and philosophy. Selected topics from electricity and optics are then introduced and, combined with the previously developed topics in mechanics, are used to show how we have arrived at our present conception of the structure of matter.

In mathematics, topics are selected from analytic geometry and calculus in such a way as to show how this science has arisen as a powerful independent discipline and how its tools, in turn, have profoundly influenced the development of physical science. An introduction to the theory of sets is included.

Mathematics, two hours; Physics, two hours; Laboratory, two hours.
Required for Freshmen. First semester.

SCIENCE 2. Professors ARONS and BROWN in charge.

4 credit hrs.

The second semester of the course outlined above under Science 1.

Mathematics, two hours; Physics, three hours; Laboratory, two hours.
Required for Freshmen. Second semester.

SCIENCE 1-2 STAFF; Professors ARONS, BENSON, BREUSCH, BROWN, DEMPSEY, GORDON, LOOMIS, ROMER, SOLLER, SPRAGUE, TOWNE, WILLCOX; Mr. LANGFORD.

3S. CONCEPTS AND METHODOLOGY IN MODERN SCIENCE.

Professors ARONS and EPSTEIN.

4 credit hrs.

A course in physical science and philosophy, treating three great conceptual developments through which modern science has influenced the

history of ideas and man's view of his place in the universe: relativity, the laws of thermodynamics, the quantum concepts. The point of departure is that reached at the end of Science 1, 2. Mathematical and physical concepts developed in the freshman course will be used throughout and will be extended where necessary. The scientific ideas will be developed with logical care and will be examined in their philosophical and historical context. The course is intended primarily as an elective for majors in humanities and the social sciences; it is not open to Physics majors. Majors in other sciences may be admitted by permission of the instructors. *Elective for Sophomores. Second semester. Alternate years. (Omitted 1960-61.)*

21. CHEMISTRY-BIOLOGY SEQUENCE. CHEMISTRY. 4 credit hrs.

Professors BEEBE and KROFF and Mr. LANGFORD.

A study of substances, their structure, their properties and the reactions by which they are converted into other substances. Attention is given to the orientation of chemistry toward physics, biology and the other related sciences. Three hours classroom and four hours laboratory work per week. (Same course as Chemistry 21.) Requisite: Science 2. *Elective for Sophomores. First semester.*

22. CHEMISTRY-BIOLOGY SEQUENCE. GENERAL BIOLOGY. 4 credit hrs.
Professor KIDDER.

An introduction to biological principles integrated with the first semester chemistry which is arranged as part of a program of liberal study. Four classroom hours and two hours of laboratory work per week. (Same course as Biology 22.) *Elective for Sophomores. Second semester.*

23. ORGANIC EVOLUTION. PROFESSOR HEXTER. 4 credit hrs.

A study of the evolution of organisms including the genetic background of evolution, the evolution of structure and function and certain theoretical aspects of the subject. Four lectures and one two-hour laboratory per week. (Same course as Biology 23.) *Elective for Sophomores. First semester.*

23S. ORGANIC EVOLUTION. PROFESSOR BROWER. 4 credit hrs.

Same description as Science 23; same course as Biology 23S. *Elective for Sophomores. Second semester.*

41. INTRODUCTION TO THE HISTORY OF SCIENCE. 3 credit hrs.
Professor YOURGRAU.

The development of mechanics from Newton to Hertz and Mach. The concepts of matter and energy. The rise of the classical theory of fields in the 19th century. Three class meetings per week. Requisite: Completion of the Amherst College science requirement or its equivalent. *Elective for Juniors. First semester.*

43. INTRODUCTION TO ANALYSIS OF DATA AND DESIGN OF EXPERIMENTS.

Professor ROMER.

1 credit hr.

A series of lectures intended for all students in natural sciences (including pre-medical study), designed to give such students an awareness of the available objective methods of constructing experiments and interpreting experimental results. Specific illustrations will be taken from physical science, biology, psychology, and medical research. Elementary theory of errors. Confidence limits and tests for significant differences between experimental results. Testing hypotheses. Design of experiments. Calculus, at the level developed in Science 1, 2, is utilized throughout. *Elective for Juniors. First semester.*

Spanish

Associate Professor JOHNSON ‡; Assistant Professor CANNON;
Assistant: Miss ECHEVARRÍA.

Note: All rite majors in Spanish are required to elect 30 semester hours of courses offered or approved by the department, including Spanish 7 or 7S, but excluding Spanish 1 and 3. All honors candidates are required to elect courses 7 or 7S, 10, 21, 22, 25, 26, 42, 79 and 80. This course program may be adjusted in certain cases. Honors candidates must present a thesis and pass a comprehensive examination in the History of Spanish Literature and in the critical interpretation of texts. Beginning with the class of 1962, all majors must pass the comprehensive examination. A reading list will be furnished to aid in the preparation for the examination.

A combined major in two languages may be arranged by consultation with the department. For a student whose primary foreign language is Spanish, the major must include twenty credit hours in Spanish exclusive of Spanish 1 and 3. In the second language it must include ten hours, of which at least three must deal with literature. A comprehensive examination covering both fields will be given. A reading list will be made up to suit individual cases to aid in the preparation for the examination.

Requirements for Sophomores in Humanities. The following courses are approved as satisfying the Humanities requirement in sophomore year: any course or combination of courses (numbered above 5, except Spanish 10) giving 4 credit hours.

1. ELEMENTARY COURSE.

4 credit hrs.

Professor CANNON and Miss ECHEVARRÍA.

Grammar, pronunciation, oral practice. This course will meet three hours per week for explanation and demonstration, and four hours per week in small sections for oral practice. *Elective for Freshmen. First semester.*

‡ Absent on leave second semester.

3. INTERMEDIATE COURSE.

4 credit hrs.

Professor CANNON and Miss ECHEVARRÍA.

Review of grammar and pronunciation; oral practice. Reading and analysis of selected texts. This course will meet three hours per week for explanation and demonstration, and three hours per week for drill in aural comprehension of the language. Assignment to this course will be made on the basis of the score in the CEEB Achievement Test. *Elective for Freshmen. First semester.*

3S. INTERMEDIATE COURSE. Professor CANNON and Miss ECHEVARRÍA.

4 credit hrs.

Same description as above. Requisite: Spanish 1, or the equivalent. *Elective for Freshmen. Second semester.*

5. ADVANCED COURSE.

4 credit hrs.

Professor JOHNSON and Miss ECHEVARRÍA.

The purpose of this course is to complete the student's training in fluent reading and in oral comprehension. Six hours per week in the language laboratory and in class. Stress will be placed on the acquisition of aural comprehension of the language and oral practice. Conducted in Spanish. Requisite: A satisfactory score in the CEEB Achievement Test, or Spanish 3, or the equivalent. *Elective for Freshmen. First semester.*

5S. ADVANCED COURSE. Professor CANNON and Miss ECHEVARRÍA.

4 credit hrs.

Same description as above except that most of the students' time will be spent in the language laboratory. Requisite: A satisfactory score in the CEEB Achievement Test, or Spanish 3, or the equivalent. *Elective for Freshmen. Second semester.*

7. INTRODUCTION TO HISPANIC CIVILIZATION.

4 credit hrs.

Professor CANNON.

This course will meet four hours per week for the reading and discussion of selected texts representing the drama, the novel, and poetry: Lorca, Unamuno, Valle-Inclán, Cervantes, etc. Requisite: satisfaction of the language requirement. *Elective for Freshmen. First semester.*

7S. INTRODUCTION TO HISPANIC CIVILIZATION.

4 credit hrs.

Professor CANNON.

Same description as above. Requisite: satisfaction of the language requirement. *Elective for Freshmen. Second semester.*

10. ADVANCED COMPOSITION and CONVERSATION.

4 credit hrs.

The Department.

Practice in conversation, free composition and set translation into Spanish; oral reports on selected topics. This course is designed primarily for those who wish to perfect their command of Spanish. Requisite: the

consent of the instructor. Three class and two laboratory hours per week. *Elective for Freshmen. Second semester. (Omitted 1960-61.)*

21S. READINGS IN SPANISH LITERATURE. PROFESSOR CANNON. 4 credit hrs.

This course will meet three times a week to study approximately six representative novels, plays and poetry by such authors as Unamuno, Ortega, Jiménez, etc., and their relation to the main literary trends of recent times. Limited to 25 students. Requisite: Spanish 7 or 7S. *Elective for Sophomores. Second semester.*

22S. READINGS IN SPANISH AMERICAN LITERATURE.

Professor JOHNSON.

4 credit hrs.

This course will meet three times a week to study particularly the novels of Gallegos, Güiraldes, Barrios, Azuela, Mallea, Payró, etc. Individual student projects. Limited to 25 students. Requisite: Spanish 7 or 7S. *Elective for Sophomores. First semester.*

25S. READINGS IN SPANISH DRAMA. PROFESSOR CANNON.

4 credit hrs.

This course will meet three times a week to study particularly "Don Duardos", "El Burlador de Sevilla", "Fuenteovejuna", "Yerma", and "La casa de Bernarda Alba". Limited to 25 students. Requisite: satisfaction of the language requirement. *Elective for Sophomores. Second semester. (Omitted 1960-61.)*

26S. CERVANTES. PROFESSOR JOHNSON.

4 credit hrs.

This course will meet three hours per week to study the major prose works of Cervantes and their relation to the Golden Age. Emphasis on *Don Quijote de la Mancha*. Limited to 25 students. Requisite: satisfaction of the language requirement. *Elective for Sophomores. First semester. (Omitted 1960-61.)*

27. HISPANIC AUTHORS.

1 credit hr.

This course will meet once a week to discuss some aspect of Hispanic literature. Requisite: the permission of the instructor. *Elective for Sophomores. First semester. (Omitted 1960-61.)*

28. HISPANIC AUTHORS.

1 credit hr.

Same description as Spanish 27. Requisite: the permission of the instructor. *Elective for Sophomores. Second semester. (Omitted 1960-61.)*

42. ADVANCED READINGS IN SPANISH LITERATURE.

2-4 credit hrs.

The Department.

The content of this course will be determined each year by the student in consultation with the Department. Students with special interests are invited to consider the possibilities of this course. Requisite: the consent of the Department. *First and Second semesters. (Omitted 1960-61.)*

79-80. CONFERENCE COURSE FOR HONORS CANDIDATES.

4-6 credit hrs.

III

*Lectureships, Honors, Fellowships, Prizes
and Awards*

Lectureships

THE HENRY WARD BEECHER LECTURESHIP

This lectureship fund of \$10,000 was founded by the late Frank L. Bab-bott, LL.D., of the Class of 1878, in honor of Henry Ward Beecher, of the Class of 1834. The incumbent is appointed biennially by the Faculty for supplementary lectures in the departments of history and the political, social, and economic sciences.

THE CLYDE FITCH FUND

A fund of \$20,000 was established by Captain and Mrs. W. G. Fitch of New York in memory of their son, Clyde Fitch, of the Class of 1886. The income of this fund is to be used for the furtherance of the study of English literature and dramatic art and literature. The whole or part of this income is usually devoted to the remuneration of an eminent lecturer, who may also take a part in the regular instruction of the College.

THE JOHN WOODRUFF SIMPSON LECTURESHIP

A fund now amounting to \$200,800 was established in memory of John Woodruff Simpson, of the Class of 1871, by his wife and daughter. The income is to be used for fellowships and "to secure from time to time, from England, France or elsewhere, scholars for the purpose of delivering lectures or courses of instruction at Amherst College."

THE GEORGE WILLIAM AND KATE ELLIS REYNOLDS LECTURESHIPS

A fund of \$150,000 established by the late George W. Reynolds of the Class of 1877 provides an annual income of approximately \$9,000 which is divided into three equal parts to provide lectureships on Christ and Christianity, Science, and American Democracy.

THE CHARLES E. MERRILL LECTURESHIP

A fund has been given by the late Charles E. Merrill of the Class of 1908 for a series of lectures and formal discussions on applied economics. Upon delivery, these lectures become the property of Amherst College for publication.

As in previous college years, a number of Merrill Lecturers will be brought to the College during 1960-1961 from the fields of government, business, labor, and agriculture.

Honors

THE PHI BETA KAPPA SOCIETY

The students elected to membership in this honor society are those of highest standing and are normally candidates for the degree with honors. A preliminary election of outstanding students occurs at the end of the first semester of Junior year; and further elections occur at the end of the first semester and at commencement time of Senior year. Membership in the society is extended to about a tenth of the students in each class.

Officers

President: G. ARMOUR CRAIG, '37

Vice-President: WILLARD L. THORP, '20

Secretary-Treasurer: WILLIAM H. PRITCHARD, '53

Undergraduate President: BERT W. REIN, '61

Undergraduate Secretary-Treasurer: BERT W. REIN, '61

First Election, Class of 1961

BERT WALTER REIN

Second and Third Elections, Class of 1960

Robert Holt Allen

David Frantz Bradford

David Scott Foster

Robert Morris Glickman

Malcolm Graham Greenaway, Jr.

Philip Henry Heckel

Robert Griggs Higbie

Andrew Perry Ingersoll

Robert Maurice Johnson

Hugh Richard Jones, Jr.

Douglas Earl MacLaughlin

Robert Andrew Pollak

Roderic Marvin Prindle

John Paul Richardson

James Kevin Rooney

William Gordon Rosenberg

Carlton Thrasher Russell

Peter Gerhard Sandstrom

A. Gary Shilling

Paul Holzworth Strohm, Jr.

William Robert Vetter

Robert Cross Vogel

Richard Frederick Weisfelder

James Boyd White

Robert Louis Woodbury

Richard Henry Wynn

THE SOCIETY OF THE SIGMA XI

Sigma Xi, the National Honorary Scientific Research Society, was founded in 1886; the Amherst Chapter was installed March 23, 1950. The Society has as one of its purposes to give recognition to those students, members of the faculty, and research associates who have demonstrated ability to carry on constructive scientific research or who show definite promise of research ability. Other functions are the maintenance of companionship among investigators in the various fields of science, the holding of meetings for the discussion of scientific subjects, and the fostering of an interest in scientific research in the College.

Undergraduates, masters candidates, and others who show definite promise of research ability may be recommended to associate membership by the departments concerned. In the case of undergraduates, nomination will be given only to those students whose promise of research ability would warrant recommendation for at least a degree *magna cum laude* (entirely aside from the question of grades). At present the chapter has a total membership of some 95 faculty and students.

Officers

President: Professor OSCAR E. SCHOTTÉ

Vice-President: Professor GERALD P. BROPHY

Secretary-Treasurer: Professor ALFRED B. WILLCOX

Initiates—1960
to Full Membership

Cornelius Ephraim Klotz
Robert Harry Koch

Edward Renton Leadbetter
Lorenzo Willard Richards

To Associate Membership

Ralph S. Blume
David S. Foster
Robert M. Glickman
Daniel A. Guthrie
Stephen B. Hulley
Andrew F. Ingersoll

Stewart Leibowitz
Malcolm F. Nicol
Walter C. Pusey, III
John P. Richardson
A. Gary Shilling
Norman A. Spencer

William R. Vetter

THE BOND FIFTEEN

From the fifteen Seniors who have attained the highest general standing at the end of the first semester of senior year, two speakers are selected upon the basis of literary and oratorical merit to deliver orations at the Class Day Exercises. The Bond Prize of one hundred dollars is awarded to the speaker who delivers the best oration.

The Bond Fifteen, 1960

Robert Holt Allen
 Ralph Stuart Blume
 David Scott Foster
 Robert Morris Glickman
 Robert Griggs Higbie
 Andrew Perry Ingersoll
 Robert Maurice Johnson
 Robert Andrew Pollak
 John Paul Richardson
 James Kevin Rooney
 William Gordon Rosenberg
 Carlton Thrasher Russell
 A. Gary Shilling
 Paul Holzworth Strohm, Jr.
 Robert Cross Vogel

DELTA SIGMA RHO

Delta Sigma Rho was founded in 1906; the Amherst Chapter was admitted in 1913. The purpose of Delta Sigma Rho is to encourage sincere and effective public speaking and to recognize achievement in this field of endeavor. To qualify for membership students must have participated in intercollegiate debating and be in the top 35% of their class. Members-at-large may be elected to recognize outstanding contributions to forensics.

Member-at-large: Professor STEWART LEE GARRISON

Graduate Members: Mr. JAMES ALFRED GUEST

Professor HUGH DODGE HAWKINS

Professor WILLARD LONG THORP

Undergraduate President

President: MARK L. STIGLITZ, '61

Fellowships

The College's funds for fellowships aggregate \$506,000. From the income of these funds fellowships are awarded annually to graduates of Amherst College, and in some instances to graduates of other colleges, for study in graduate or professional schools. Applications should be made in writing to the Dean before March first.

The names of those to whom fellowships have been awarded for the current year will be found on page 14.

THE AMHERST-DOSHISHA FELLOWSHIP

Amherst-Doshisha Fellowship at Amherst House, Doshisha University, Kyoto, Japan. An opportunity to work in a bi-cultural setting with Professor Otis Cary, Director of Amherst House, is open to young alumni of the College for a term of one, or in some cases, two years. Travel expenses and a modest stipend are paid by the College. The recipient will be given the opportunity of assisting Otis Cary in the activities of Amherst House and also in teaching English to Japanese students. No knowledge of Japanese is required.

THE AMHERST MEMORIAL FELLOWSHIPS FOR THE STUDY OF SOCIAL ECONOMIC, AND POLITICAL INSTITUTIONS, AND FOR PREPARATION FOR TEACHING AND THE MINISTRY

A fund of \$116,900 provides fellowships to perpetuate the memory of those Amherst men who gave their lives for an ideal. The following statement expresses the purposes of the donor of these fellowships: "Realizing the need for better understanding and more complete adjustment between men and existing social, economic, and political institutions, it is my desire to establish a fellowship for the study of the principles underlying these human relationships."

Appointments to these fellowships may be made from the graduating class or the alumni of Amherst College or of other colleges, the object being to permit men of character, scholarly promise, and intellectual curiosity to investigate some problem in the humanistic sciences. Candidates should be men of sound health. During previous training they should have given evidence of marked mental ability in some branch of the social sciences—history, economics, political science—and have given promise of original contribution to a particular field of study. It is desirable that they possess qualities of leadership, a spirit of service, and an intention to devote their efforts to the betterment of social conditions through teaching in its broad sense, journalism, politics, or field work.

While preference is given to candidates planning to do advanced work in the field of the social sciences, applications will be accepted and awards made to candidates who are planning to go to theological school as a preparation for a career in the ministry and to those from other fields

than the social sciences who are preparing for a career in teaching in secondary schools or colleges.

Appointments may be made for terms of two years. Tenure may, however, be shorter or longer, depending upon the nature of the subjects investigated or upon other circumstances which, in the judgment of the committee, warrant a variation in the length of tenure.

The stipend will vary according to the circumstances of the appointment. Awards will depend upon those aspects of individual cases which, in the judgment of the committee, most suitably fulfill the purpose of the foundation.

These fellowships will be awarded by the Board of Trustees upon the recommendation of the Faculty Fellowship Committee.

THE HENRY P. FIELD FELLOWSHIPS

Two fellowships of \$500 each are available from the income of the bequest of the late Henry P. Field of the class of 1880, to promote graduate study in the fields of English and History. Appointments are made annually by the College on the recommendation of the departments of English and History.

THE EDWARD HITCHCOCK FELLOWSHIP

The income from a fund of \$20,000 founded by the late Mrs. Frank L. Babbott of Brooklyn, N. Y., is available for the promotion of graduate study in the department of physical education. Its object is to make the student familiar with the best methods of physical training, both in the gymnasium and on the field. The appointment is made by the Faculty.

THE ROSWELL DWIGHT HITCHCOCK MEMORIAL FELLOWSHIP

A fund of \$8300, established through the agency of the Alpha Delta Phi Fraternity, provides an annual award under conditions determined by the Faculty, to a member of the senior class for excellence in history and the social and economic sciences. The holder of the Fellowship pursues for one year, at an institution approved by the Faculty, a course of study in history or economics, to be completed within the period of two years next following graduation. The amount of the Fellowship is paid in two installments, one on completion of one-half the year's work, the other at the end of the year.

THE RUFUS B. KELLOGG UNIVERSITY FELLOWSHIP

The income from a fund of \$53,700 established by the late Rufus B. Kellogg of the Class of 1858 provides certain prizes, and a fellowship award for three years to an alumnus of Amherst College, who shall be appointed upon the following conditions:

1. He shall be elected by the Faculty from the members of the class graduated at the close of the academic year in which this election shall be made, or from the members of the classes graduated in the six years immediately preceding the academic year in which this election shall be made.

2. The Faculty shall select as the incumbent of the said Fellowship the man who, in their judgment, is best equipped for study and research, without regard to any other considerations whatsoever, except that he should have an especially good knowledge of at least one modern foreign language and should have had at least one year of Latin in preparatory school or college.

3. The three years shall be spent by the incumbent at a German University, or, with the approval of the said Faculty, at any other place or places, in the study of philosophy, philology, literature, history, political science, political economy, mathematics or natural science. At least one college term of the final year shall be spent by the incumbent at Amherst College, where he shall give a series of not more than thirty lectures on a subject selected by himself and approved by the Trustees. The lectures shall be given to the Senior class, but the members of all other classes shall have the privilege of attending. The incumbent shall have his lectures published, at the end of his official term, in good book form, or in a learned journal.

THE KRUPP FELLOWSHIP

A fellowship of \$2500 is to be awarded annually either to a member of the senior class, a graduate of the College, or a member of the Faculty, with preference in that order, for advanced study in any field at a German University.

In the event a recipient under the above categories is not available in any one year, a smaller award may be made to an undergraduate for summer study in Germany.

The recipient of either the regular fellowship or the summer award must have a good command of reading and oral German.

The selection of the Krupp Fellowship will be made by the Faculty Fellowship Committee in consultation with the German Department.

THE EDWARD POOLE LAY FELLOWSHIP

The income from a fund of \$38,700, established by Frank M. Lay, of the class of 1893, and Mrs. Lay, in memory of their son Edward Poole Lay, of the class of 1922, provides for a fellowship to be awarded to a graduate of Amherst College who has shown unusual proficiency and talent in music, and who desires to continue his studies in this field. Preference is to be given to a candidate who is proficient in voice. In the event

that there is no qualified candidate for the award in any one year in the musical arts (especially voice and instrumental music), then it may be awarded under the same conditions to a qualified candidate in the field of the dramatic arts.

This fellowship will be awarded by the Board of Trustees upon the recommendation of the Faculty Fellowship Committee.

THE JAMES INGRAM MERRILL AWARD

A fellowship of \$1,000 is available for a member of the graduating class or a recent alumnus who has done outstanding work in the field of English to assist him in graduate study at a University of his choice. The award may be made for either scholarly promise or for ability in creative writing. The award is to be made by the Fellowship Committee upon recommendation from the English Department.

THE FORRIS JEWETT MOORE FELLOWSHIPS

These fellowships, three in number, were established in memory of Forris Jewett Moore of the class of 1889 by his widow, Emma B. Moore. In each case, the beneficiary is to be a member of the graduating class of the year preceding that in which he holds the Fellowship.

1. A fund of \$22,700, the income of which is to be used to assist some graduate of Amherst College who has distinguished himself in the study of chemistry while an undergraduate and desires to engage in further study of that subject, preference to be given to eligible candidates whose plans lie in the field of organic chemistry.

2. A fund of \$17,500, the income of which is to be awarded to a graduate of Amherst College who has distinguished himself in the study of history while an undergraduate and desires to engage in further study of that subject.

3. A fund of \$21,900, the income of which is to be awarded to a graduate of Amherst College who has distinguished himself in the study of philosophy while an undergraduate and desires to engage in further study of that subject.

THE GEORGE STEBBINS MOSES MEMORIAL FELLOWSHIP

The income from a memorial fund provides a fellowship to be awarded to an Amherst graduate each year who has been accepted by a recognized divinity school, who has good reason to seek financial aid, who seems to be an all-around man qualified in all respects as a religious and moral leader and a lover of ordinary people, and who is qualified scholastically to meet the calling of a theological career creditably. The candidate need not be an outstanding student, but improvement in the upperclass years, dedication, and a sense of purpose will be given great consideration.

The recipient will be selected by the Fellowship Committee acting with the College Chaplain and, ordinarily, will be awarded on an annual basis but, under appropriate circumstances, it may be renewed for a second or third year at the discretion of the Committee. If the income and needs of candidates permit, more than one fellowship may be awarded in any given year.

THE GEORGE A. PLIMPTON FELLOWSHIPS

These fellowships, established by the Board of Trustees of Amherst College in memory of George A. Plimpton of the class of 1876, a member of the Board from 1890 to 1895 and from 1900 to 1936 and President of the Board from 1907 to 1936, are to be awarded without stipend to members of the senior class who are of outstanding scholastic ability and promise, who plan to continue their studies in graduate school, and who are not in need of financial assistance.

These fellowships will be awarded by the Board of Trustees upon recommendation of the Faculty Fellowship Committee.

THE SHERMAN PRATT FACULTY FELLOWSHIPS FOR STUDY ABROAD

These fellowships are awarded by the President of the College to younger members of the Amherst Faculty, on the basis of past performance in teaching and scholarship and programs for further study. The stipend may be fixed in such amount as the President may determine. Each holder of a Sherman Pratt Fellowship will be expected on his return to the College to deliver to the college body one or more lectures.

THE JOHN WOODRUFF SIMPSON FELLOWSHIPS AND LECTURESHIPS

A fund now amounting to \$200,800 was established in memory of John Woodruff Simpson of the class of 1871, by his wife and daughter. The uses of the income as defined by the donors are as follows:

"1. To award to any graduate of Amherst College a fellowship for use in studying law at any school approved by the Board of Trustees of the College;

"2. To award to any graduate of Amherst College a fellowship for use in studying medicine at any school approved by the Board of Trustees of the College;

"3. To award to any graduate of Amherst College a fellowship for use in studying theology at any school approved by the Board of Trustees of Amherst College, without regard to the particular creed or particular religious belief taught thereat;

"4. To award to any graduate of Amherst College a fellowship for use in studying at any school, college or university approved by the Board of Trustees of the College, in preparation for the teaching profession:

"5. To award to any graduate of Amherst College a fellowship for use in graduate study at the universities of Oxford or Cambridge in England;

"6. To award to any graduate of Amherst College a fellowship for use in graduate study at the Sorbonne in Paris;

"7. To secure from time to time from England, France or elsewhere scholars for the purpose of delivering lectures or courses of instruction at Amherst College."

These fellowships will be awarded by the Board of Trustees upon the recommendation of the Faculty Fellowship Committee.

THE BENJAMIN GOODALL SYMON, JR. MEMORIAL FELLOWSHIP

The income from a memorial fund provides a fellowship to be awarded to an Amherst graduate each year who has been accepted by a recognized divinity school, who has good reason to seek financial aid, who seems to be an all-around man qualified in all respects as a religious and moral leader, and who is qualified scholastically to meet the calling of a theological career creditably, although he may plan to use the divinity school training for work in another field. The candidate need not be an outstanding student, but improvement in the upperclass years, dedication, and a sense of purpose will be given great consideration.

The recipient will be selected by the Fellowship Committee acting with the College Chaplain and, ordinarily, will be awarded on an annual basis but, under appropriate circumstances, it may be renewed for a second or third year at the discretion of the Committee. If the income and needs of candidates permit, more than one fellowship may be awarded in any given year.

FELLOWSHIPS AWARDED BY THE AMERICAN SCHOOLS OF CLASSICAL STUDIES AT ATHENS AND ROME

The attention of graduate students interested in the Classics and in Archaeology and Ancient Art is called to the opportunities offered by the American Schools of Classical Studies at Athens and Rome. As the College contributes regularly to the support of these schools, any Amherst graduate may enjoy the privileges of study at either school without charge for tuition and may compete for the annual fellowships which they offer. Further information may be obtained from any classical teacher at the College.

COLUMBIA—AMHERST MEMORIAL FELLOWSHIP IN HISTORY

This fellowship offered jointly by Amherst and Columbia is open to Amherst students in the graduating class for the study of History (preferably European History) at Columbia University. The stipend is deter-

mined on the basis of need but may be as much as \$2500. It may be renewed for a second year if a student's record justifies such a renewal.

YALE—AMHERST MEMORIAL FELLOWSHIP IN HISTORY

This fellowship offered jointly by Amherst and Yale is open to Amherst students in the graduating class for the study of History (preferably American History) at Yale University. The stipend is determined on the basis of need but may be as much as \$2500. It may be renewed for a second year if a student's record justifies such a renewal.

Prizes and Awards

The following prizes are offered annually for proficiency in the work of the several departments of collegiate study, and for other qualifications. The recipients of awards for the previous year are named in each case.

Art

THE ANNA BAKER HEAP PRIZE, from the income of a fund of \$1,800, established by the late Arnold N. Heap of the class of 1873; \$115 is awarded to that Senior who submits the best essay in the field of "Art."

DANIEL BOARDMAN BUMP, '60

Biology and Geology

THE HARVEY BLODGETT SCHOLARSHIP, from the income of a fund of \$2,700, established by Frederick H. Blodgett in memory of his grandfather, Harvey Blodgett of the class of 1829, is awarded to aid student work in biology and geology in their educational phases as distinct from their more technical and strictly scientific phases: combined with

THE PHI DELTA THETA SCHOLARSHIP, from the income of a fund of \$600, established by the Phi Delta Theta Fraternity, is awarded as a scholarship at the Woods Hole Marine Laboratory to a student for proficiency in biology.

(The two preceding scholarships usually are combined, with a single award of \$200.)

No award

Chemistry and Medicine

THE HOWARD WATERS DOUGHTY PRIZE, from the income of a fund of \$1,100, given anonymously; \$70 is awarded to that member of the junior class who, in the opinion of the chemistry department, is best qualified to undertake an honors program.

Divided between

THOMAS ALEXANDER HOPKINS, '61

JOEL TABOR MAGUE, '61

THE FRANK FOWLER DOW PRIZES, part of the income from a fund established by Fayette B. Dow, '04, in memory of his father; \$300 is awarded to a member or members of the junior or senior class preparing to enter medical school, and whose undergraduate work indicates a career of usefulness and distinction in medicine.

Divided between

RALPH STUART BLUME, '60

NORMAN ALBERT SPENCER, '60

Dramatics

THE RAYMOND KEITH BRYANT PRIZE, an annual gift of \$25 from Robert E. and Ethel M. Bryant in memory of their son, Raymond Keith Bryant, of the class of 1936, is awarded to that undergraduate who, in the opinion of a board of judges, gives the best single performance of the year in a Masquers' play.

JONATHAN RAPPOPORT, '60

THE HERBERT E. MAYER PRIZE, of \$100, provided by a gift from Robert Primack, of Lakewood, New Jersey, in honor of the services to community theater by Herbert E. Mayer of the class of 1935, is awarded annually to that undergraduate who in the opinion of the Dramatic Arts Department has shown outstanding achievement both in courses in Dramatic Arts and in theater work.

STEVEN BARBASH, '60

Economics

THE W. T. AKERS, JR. PRIZE of \$50, provided by an annual gift from W. T. Akers, Jr., of the class of 1927, is awarded to that undergraduate who has, in the opinion of the economics department, written and submitted the best honors essay in economics.

ROBERT MAURICE JOHNSON, '60

THE HAMILTON PRIZE, established by his former students in memory of Professor Walton Hale Hamilton, distinguished member of the Department of Economics from 1915 to 1923, consisting of a collection of economics books, is awarded to that student other than a senior who ranks highest in the introductory economics course.

EDWARD BARRY SADIN, '62

THE MERRILL CENTER PRIZE, a prize of \$100 to be given to that member of the senior class who, in the opinion of the Economics Department, has written an honors thesis of distinction upon a subject related to capital formation and economic growth.

Divided between

ROBERT MAURICE JOHNSON, '60

ROBERT CROSS VOGEL, '60

THE SYLVESTER AWARD, supported by an annual gift from Albert L. Sylvester of the class of 1924, goes to the junior majoring in economics, who has shown himself outstanding in his work in that Department while maintaining a worthy general average. If the recipient is already on the scholarship list, the award is \$750; if not, the award is a prize of \$100 and

the remainder goes to Converse Library for the purchase of books in economics.

BERT WALTER REIN, '61

English

THE ACADEMY OF AMERICAN POETS PRIZE, of \$100, made possible by a gift of Harry Woodbourne, is awarded annually for the best poem or group of poems, preferably on nature, submitted by an undergraduate.

JOSEPH LAWRENCE CADY, JR., '60

THE ARMSTRONG PRIZE, from the income of a fund of \$2,500, established in part by Collin Armstrong of the class of 1877 in memory of his mother Miriam Collin Armstrong, awarded in the form of books to the value of \$80 to members of the freshman class who excel in composition.

PASCAL EUGENE POE, III, '63

THE COLLIN ARMSTRONG POETRY PRIZE, from the income of a fund of \$2,500, established in part by Mrs. Elizabeth H. Armstrong; \$80 is awarded to the undergraduate author of the best original poem or group of poems.

Divided between

JEFFREY FLOOD SNYDER, '60

RICHARD STANLEY WIRTZ, '61

THE CORBIN PRIZE, from the income of a bequest of \$1000 established by the estate of William Lee Corbin of the Class of 1896; \$65 is awarded for an outstanding original composition in the form of poetry or an informal essay.

Divided between

JEFFREY FLOOD SNYDER, '60

RICHARD STANLEY WIRTZ, '61

THE JOHN FRANKLIN GENUNG PRIZE, of \$50, given each year anonymously in memory of Professor Genung, is awarded to that member of the junior or senior class who excels in prose composition.

LAURENCE FRANCIS SHEEHAN, '61

THE HARRY RICHMOND HUNTER, JR. PRIZE, from the income of a fund of \$1,400, established by H. R. Hunter and Emma Louise Hunter in memory of their son, Harry Richmond Hunter, Jr. of the class of 1929; \$50 is awarded to that member of the sophomore class who presents the best essay on a topic approved by the English department.

SAMUEL RICHARD TODD, JR., '62

THE PETER BURNETT HOWE PRIZE for excellence in prose fiction, established by a gift of Robert B. Howe of the class of 1930 in memory of his son Peter Burnett Howe '60. The prize is awarded to an undergraduate for excellence in prose fiction.

PAUL HOLZWORTH STROHM, JR., '60

THE RALPH WALDO RICE PRIZE, from the income of a fund of \$1,800, established by Mrs. Mary Rice Jenkins in memory of her brother, Ralph Waldo Rice, of the class of 1910; \$115 is awarded for the best essay on "The Liberal College and Christian Citizenship" or any other subject named by the Faculty.

PAUL HOLZWORTH STROHM, JR., '60

Fine Arts

THE ATHANASIOS DEMETRIOS SKOURAS PRIZE of \$25 is given annually by an anonymous donor in the memory of Athanasios Demetrios Skouras, '36, who died in 1943 in Athens, Greece as a result of Nazi reprisal killings. The prize is given to a student who in the opinion of the Fine Arts Department has created an outstanding work of art or architecture or to a student who, in the opinion of the Music Department, was pre-eminent in music composition or rendition of a music selection. Preference to be given in the fine arts.

EDWARD JOHN BURNELL, III, '60

Greek

THE WILLIAM C. COLLAR PRIZE, from the income of a fund of \$1,300 established by the late William C. Collar of the class of 1859; \$85 is awarded to that member of the freshman class who shall make on a written examination the best version in English of a previously unseen page from some Greek author.

Divided between

JAMES CHESTER DYBIKOWSKI, '63

GEORGE EDWARD WHITE, '63

THE HUTCHINS PRIZE, from the income of a fund of \$1,300, established by the late Waldo Hutchins of the class of 1842; \$85 is awarded to an upperclassman for excellence in Greek. The scholarship is determined chiefly by the regular recitations and examinations of the department but special studies and examinations may also be required of the candidates.

Divided among

JAMES KEVIN ROONEY, '60

RICHARD CARL WECHSLER, '60

JAMES BOYD WHITE, '60

THE HARRY DE FOREST SMITH SCHOLARSHIP, of \$600, is awarded to a member of the freshman class enrolled in one of the regular courses in the department of Greek. The award is made on the basis of an examination given at the candidate's school in the March preceding his entrance to college. Students who have had either two or three years of Greek at school are eligible for this scholarship.

No award

Journalism

THE SAMUEL BOWLES PRIZE, from the income of a fund of \$3,600 established by the late Samuel Bowles King, '02; to stimulate interest in journalism as a career, a prize of \$230 is awarded to a student of the junior or senior class who has demonstrated proficiency in journalism. The income may be used from time to time for a scholarship or toward a lectureship.

Divided between

H. ADAM SONNENSCHNEIN, '60

PAUL HOLZWORTH STROHM, JR., '60

Latin

THE BERTRAM PRIZES, from the income of a fund of \$2,400, established by the late John Bertram of Salem; two prizes of \$90 and \$60 each are awarded to those students who, together with attaining a high average in the Latin courses of the Senior Year, present the best essays on some approved topic connected with these courses.

First Prize

BLAIR HAMILTON TURNER, '60

Second Prize

JAMES KEVIN ROONEY, '60

THE BILLINGS PRIZES, from the income of a fund of \$1,300, established by Frederick Billings in memory of Parmly Billings of the class of 1884; two prizes of \$45 and \$25 are awarded for general excellence in the Latin courses of the Sophomore Year together with the best essays on special topics connected with the authors read in that year.

First Prize

RICHARD CLARK PETERSON, '62

Second Prize

ALDEN ADAMS MOSSHAMMER, '62

THE CROWELL PRIZES, from a fund of \$2,300 in memory of Edward Payson Crowell of the class of 1853; prizes of \$45 and \$25 are awarded for the highest scholarship in the freshman Latin courses; prizes of \$45

and \$25 are awarded to the students who, together with attaining a high average in the Latin courses of the Junior Year, present the best essays on some approved topic connected with the junior Latin course.

Freshman Award

Divided among

STEPHEN MARK AUSTIN, '63
JOSEPH COLEMAN CARTER, JR., '63
DAVID LOUIS QUAGLIA, '63

Junior Award

First Prize

FRED LEWIS WALLACE, '61

Second Prize

GUENTER ANTON DUETHORN, '61

Mathematics, Physics, and Astronomy

THE BASSETT PHYSICS PRIZES, from the income of a fund of \$3,700 established by Preston Rogers Bassett of the class of 1913; two prizes up to \$100 and \$50 respectively may be awarded each year to those students who have distinguished themselves by the excellence and maturity of their performance in the class and laboratory work of the first course in Physics.

Divided between

WYLAND LEADBETTER BLANCHARD, '63
ROBERT THAYER POWERS, '63

THE PORTER PRIZE, from the income of a fund of \$600, established by the late Eleazer Porter of Hadley; a prize of \$35 is awarded for proficiency in first year astronomy.

SIDNEY BAILEY PARSONS, '62

THE WILLIAM WARREN STIFLER PRIZE, from the income of a fund of \$1,000, created by the late Professor Stifler; \$65 is awarded to a senior who has majored in physics and who is nominated by the teaching staff of the department for excellence in work in the courses of physics for the junior and senior years, with special weight in the course on electricity and magnetism.

ANDREW PERRY INGERSOLL, '60

THE WALKER PRIZES, from the income of a fund of \$6,000, given by the late William J. Walker of Newport, Rhode Island; two prizes of \$120 and \$75 are awarded for proficiency in mathematics of the first year,

and two prizes of \$120 and \$75 for proficiency in mathematics of the second year. In each case the award is determined by an examination.

First Year

First Prize

RALPH LEE MILLER, '63

Second Prize

EDWARD WESLER PACKEL, '63

Second Year

First Prize

WYLAND LEADBETTER BLANCHARD, '63

Second Prize

JOHN AMOS KNEISLY, II, '61

Philosophy and Religion

THE MOSELEY PRIZES, from the income of a fund of \$7,500, established by the late Thomas W. H. Moseley of Hyde Park; two prizes of \$320 and \$160 are awarded to members of the senior class for the best essays on a subject approved by the Department of Philosophy and Religion.

First Prize

PETER GERHARD SANDSTROM, '60

Second Prize

JAMES WILLIAM FORGIE, JR., '60

Physical Education

THE SAWYER PRIZES, from the income of a fund of \$1,900, established by the late Edmund H. Sawyer, hon. 1878; \$120 is available for prizes for improvement in the department of Physical Education.

Senior Class

NEWTON LAURENCE JASSIE, '60

Sophomore Class

DAVID LESLIE ELWELL, '62

Political Science

THE DENSMORE BERRY COLLINS PRIZE IN POLITICAL SCIENCE, of \$50, given annually by Miss Margaret S. Densmore in memory of her nephew Densmore Berry Collins, of the class of 1940. The award will be made to the student submitting the best honors thesis in Political Science.

RICHARD HENRY WYNN, '60

Public Speaking

THE BANCROFT PRIZES, of \$265 and \$140, from the income of a fund of \$6,300 established by the late Frederic Bancroft of the class of 1882; awarded to the two members of the senior class who produce the best orations. Both composition and delivery are considered in making the awards.

First Prize

RICHARD FRANK HUBERT, '60

Second Prize

THOMAS ALVAH SHUMAKER, '60

THE BOND PRIZES, from the income of a fund of \$2,300 established by the late Ephraim W. Bond of the class of 1841; \$150 and \$50 are awarded for the best productions spoken at the Senior Chapel service. The awards are determined by a committee appointed by the Trustees upon nomination by the Faculty.

First Prize

WILLIAM GORDON ROSENBERG, '60

Second Prize

ROBERT MAURICE JOHNSON, '60

THE GILBERT PRIZE of \$100 from the income of a fund established by the late William O. Gilbert of the class of 1890 is awarded to a member of the junior class who produces the best oration. Both composition and delivery are considered in making the award.

GILBERT ROGER SHASHA, '61

THE HARDY PRIZES, from the income of a fund of \$1,200, established by the late Alpheus Hardy of Boston; prizes of \$50 and \$25 are awarded for excellence in extemporaneous speaking.

First Prize

RICHARD FRANK HUBERT, '60

Second Prize

ROBERT ALAN ZECKHAUSER, '60

THE KELLOGG PRIZES, from part of the income of a fund of \$52,600, established by the late Rufus B. Kellogg of the class of 1858; two prizes of \$70 and \$50 are awarded to members of the sophomore or freshman classes for excellence in declamation.

First Prize

JOHN ROCHE KIELY, '62

Second Prize

JEFFREY ARNOLD GOTTLIEB, '62

THE ROGERS PRIZE, from the income of a fund of \$1,200, given by Noah C. Rogers of the class of 1880; \$75 is awarded to a member of the junior class for excellence in debate.

MARK LAWRENCE STIGLITZ, '61

Scholarship and Citizenship

THE ADDISON BROWN SCHOLARSHIP, from the income of a fund of \$6,100, established by the late Addison Brown of the class of 1852; \$395 is awarded to that member of the senior class who, being already on the scholarship list, shall have attained the highest standing in the studies of the freshman, sophomore, and junior years.

CARLTON THRASHER RUSSELL, '60

THE SAMUEL WALLEY BROWN SCHOLARSHIP, from the income of a fund of \$6,100, established by the late Samuel Walley Brown of the class of 1866; \$395 is awarded to that member of the sophomore class who at the end of his sophomore year shall in the estimation of the Trustees rank highest in his class in character, class leadership, scholarship, and athletic ability.

ROBERT SHARPE THOMPSON, '61

THE FRANK A. HOSMER SCHOLARSHIP, from the income of a fund of \$15,000 established by Frank A. Hosmer of the class of 1875; \$600 is awarded to that member of the sophomore class who, being already on the scholarship list, shall have attained the highest standing in the studies of the freshman year.

JAY EDWARD MITTENTHAL, '62

THE HOUSE MANAGEMENT COMMITTEE TROPHY is awarded each year after the end of the first semester to the sophomore delegation of a fraternity or social organization having the best scholastic record for the semester, judgment of the record to be based equally on comparative scholastic standing and on percentage of improvement as against the preceding semester.

1959-1960 DELTA KAPPA EPSILON

THE GORDON B. PERRY MEMORIAL AWARD, from the income of a fund of approximately \$1,300, provides a trophy and cash prize of \$85 to a freshman in good academic standing whose participation and attitude in freshman athletics and other activities are outstanding.

WILLIAM HENRY LARRABEE, '63

THE PORTER ADMISSION PRIZE, from the income of a fund of \$1,200, established by the late Eleazer Porter of Hadley; \$75 is awarded each year to the member of the entering freshman class who is judged to

have the best general record on the College Board tests taken for admission to Amherst. The name of the successful candidate, together with that of his school, is published in the catalogue.

GEORGE EDWARD PETERSON, '63

Ithaca High School, Ithaca, New York

THE PSI UPSILON PRIZE, from the income of a fund of approximately \$5,100, established by the Gamma Chapter of Psi Upsilon in 1941 on the occasion of the Centennial Anniversary of the founding of the Chapter; \$280 is awarded to that member of the graduating class who, in the opinion of a committee consisting of the President of the College, the Dean, and the Chairman of the Department of Physical Education and Intercollegiate Athletics, is considered to be, in the terms of the Ancient Athenian oath, * the "first citizen" of the College.

HUGH RICHARD JONES, JR., '60

THE JOHN SUMNER RUNNELLS MEMORIAL, from the income of a fund of \$6,100, established in memory of John Sumner Runnells of the class of 1865; \$395 is awarded to that member of the sophomore class who shall in the opinion of the Trustees of the College be preëminent in his zeal for knowledge and industry to attain it.

BERT WALTER REIN, '61

THE OBED FINCH SLINGERLAND MEMORIAL PRIZE, from the income of a fund of \$11,000 established by an anonymous donor; \$715 is awarded by the Trustees of the College to that member of the junior class, who, during his first three years at Amherst, has shown by his own determination and accomplishment the greatest appreciation of and desire for a college education; the award to be based upon demonstrated achievement with full consideration given to the external handicaps, financial and otherwise, under which his record was attained; in case of uncertainty the Trustees are to be guided by the example set by Obed Finch Slingerland.

JAMES EDWARD CROWLEY, '60

THE SYLVESTER SCHOLARSHIP of \$750 provided by an annual gift from Albert L. Sylvester of the Class of 1924, is awarded to a senior who,

* "I will not disgrace the soldier's arms, nor abandon the comrade who stands at my side; but whether alone or with many, I will fight to defend things sacred and profane. I will hand down my country not lessened, but larger and better than I have received it. I will accept readily and with understanding the verdicts of our judges, and I will obey the established laws and such other laws as the people may establish. If anyone shall attempt to overthrow the laws, I will not permit it, but whether alone or with many, I will fight to defend them; and I will honor the religion of our fathers. The gods attest this oath!"

being already on the scholarship list, at the end of his junior year has combined most clearly outstanding success in extra-curricular activities, including athletics, with academic distinction in one or more fields.

ROBERT SAVAGE BROWN, '60

THE STANLEY V. and CHARLES B. TRAVIS PRIZE, from the income of a fund of \$2,400; established by the late Charles B. Travis of the class of 1864; \$150 is awarded to that member of the graduating class who has made the most improvement as a man and as a scholar during his college course.

Divided equally between

RALPH STUART BLUME, '60

PHILLIP HUTSON McCLURE, '60

THE TREADWAY INTERFRATERNITY SCHOLARSHIP TROPHY, a silver cup, given by Hon. Allen Treadway of the class of 1886, in memory of his son, Charles Denton Treadway, awarded to that fraternity or the group of all non-fraternity men which has attained the highest scholastic average during the previous academic year.

1959-1960

ALPHA THETA XI

THE TRUSTEE TROPHY is awarded each semester to the fraternity or social organization showing the greatest percentage of improvement academically during the previous semester.

1959-1960

First Semester—DELTA KAPPA EPSILON

Second Semester—PHI ALPHA PSI

THE WOODS PRIZE, an annual gift of \$75 in memory of the late Josiah B. Woods of Enfield, is awarded for outstanding excellence in culture and faithfulness to duty as a man and as a scholar—particular attention being given in any prominent case to improvement during the four years' course.

Divided equally between

RALPH STUART BLUME, '60

PHILLIP HUTSON McCLURE, '60

Other Prizes

THE ROBERT E. BAUSER MEMORIAL AWARD of a twenty-five dollar United States savings bond (or its equivalent), is given at the close of every academic year to that member of the Senior Class who, in the

opinion of the senior board of Radio Station WAMF, has been of the greatest service in the operation and development of the station, during his tenure as station member. This award is sustained in perpetuity of Amherst College by the Alpha Chi Chapter of Phi Gamma Delta in memory of its brother, Robert E. Bauser, '54.

MALCOLM FOERTNER NICOL, '60

THE ASHLEY MEMORIAL TROPHY, given by the Class of 1916 in memory of Thomas W. Ashley, '16, who was killed in action at Belleau Wood in 1918, is presented annually to the retiring member of the football team who, in the opinion of a committee consisting of the Coach, the Manager, and the Captain-elect, has best "played the game."

TERRANCE LEE FARINA, '60

THE HOWARD HILL MOSSMAN TROPHY, awarded annually to the member of the senior class, who, in the opinion of a committee consisting of the President of the College, the Dean, the Chairman of the Department of Physical Education and Intercollegiate Athletics, and the President of the Student Council, has brought, during his four years at Amherst, the greatest honor in athletics to his Alma Mater—the word "honor" to be interpreted as relating both to achievement and to sportsmanship.

ROBERT FRANCIS MADGIC, '60

THE PLIMPTON INTERFRATERNITY DEBATE TROPHY, given by Francis T. P. Plimpton, '22, awarded annually to the group which places first in the interfraternity debate tournament.

1959-60 PHI DELTA SIGMA

THE LINCOLN LOWELL RUSSELL PRIZE, from the income of a fund of \$1,200 established by the late J. W. Russell, Jr. of the class of 1899 in memory of his son; \$75 is awarded to that member of the graduating class who has done most to foster the singing spirit in Amherst College.

GORDON HOLMES, JR., '60

Degrees Conferred November 7, 1959

MASTER OF ARTS

Polasa Hanmanlu

BACHELOR OF ARTS

Rite

Henry Holden Stewart

Degree Conferred April 16, 1960

BACHELOR OF ARTS

Cum laude

Walter Carroll Pusey, III

Degrees Conferred June 12, 1960

BACHELOR OF ARTS

Summa cum laude

Ralph Stuart Blume

Biology

Magna cum laude

Robert Holt Allen

Philosophy

David Frantz Bradford

Economics

David Scott Foster

Physics

Robert Morris Glickman

Biology

Malcolm Graham Greenaway, Jr.

Philosophy

Philip Henry Heckel

Geology

Robert Griggs Higbie

English

Andrew Perry Ingersoll

Physics

Robert Maurice Johnson

Economics

Hugh Richard Jones, Jr.

Economics

Douglas Earl MacLaughlin

Physics

Robert Andrew Pollak

History

Roderic Marvin Prindle

English

John Paul Richardson

Physics

James Kevin Rooney

Classics

William Gordon Rosenberg

History

Carlton Thrasher Russell

Music

Peter Gerhard Sandstrom

History

A. Gary Shilling

Physics

Paul Holzworth Strohm, Jr.

English

William Robert Vetter

Biology

Robert Cross Vogel

Economics

Richard Frederick Weisfelder

Political Science

James Boyd White

Classics

Robert Louis Woodbury

American Studies

Richard Henry Wynn

Political Science

Cum laude

Alexander Cochrane Allison, II

History

William Anthony Alonso

Biology

Gordon Corcoran Baldwin

History

Wayne Sidman Barber

Music

John Beard Bartlett

Psychology

John Frederick Bastian

Political Science

John Roosevelt Boettiger

Political Science

John Robert Bookwalter

Biology

John Carter Borton, Jr.

English

Robert Savage Brown

Biology

Thomas Patterson Brown

Philosophy

Edward John Burnell, III

Fine Arts

Joseph Lawrence Cady, Jr.

English

John David Canoni

Political Science

William Lawrence Church

German

William Allen Churchill

History

Richard James Clark, Jr.

American Studies

Rex Stowers Clements, Jr.

English

William Henry Cromley, Jr.

Mathematics

John Grosvenor Cross

Physics

Peter Hans De Haas

Political Science

George Howard Dowell, Jr.

Chemistry

Terrance Lee Farina

Religion

Richard Bert Ferguson

Physics

Louis Stephen Fishman

Biology

Roy Gerald Fitzgerald, III

Biology

- | | |
|--|---|
| James William Forgic, Jr.
<i>Philosophy</i> | John Northcott Knapp
<i>Economics</i> |
| David Gordon Funk
<i>Economics</i> | Stephen Toby Kunian
<i>History</i> |
| David Henry Gaskell
<i>American Studies</i> | Malcolm Sparhawk Langford, Jr.
<i>American Studies</i> |
| Peter Richard Gilbert
<i>American Studies</i> | Robert Forrest Lawler
<i>Mathematics</i> |
| John Randall Gillis
<i>History</i> | Stewart Leibowitz
<i>Chemistry</i> |
| Peter Alan Gross
<i>Biology</i> | Douglas Edward Lewis
<i>Philosophy</i> |
| Daniel Albert Guthrie
<i>Biology</i> | Ward Bevins Lewis, Jr.
<i>English</i> |
| Frederic Murray Hadley, Jr.
<i>Religion</i> | James Craig McClelland
<i>History</i> |
| Richard Chandler Hall
<i>Physics</i> | Ronald Newell Middleton
<i>English</i> |
| Joseph Thornbury Henke
<i>Political Science</i> | James Robert Miller
<i>Biology</i> |
| Arthur McLean Hildreth
<i>Biology</i> | Lewis Holmes Miller, Jr.
<i>English</i> |
| Evan Robert Hoorneman
<i>English</i> | Robert Owen Myhr
<i>Economics</i> |
| Robert Parker Hopkins
<i>Biology</i> | Robert Lee Neill, Jr.
<i>English</i> |
| Richard Frank Hubert
<i>History</i> | John Neubauer
<i>Physics</i> |
| Stephen Benjamin Hulley
<i>Chemistry</i> | James Michael Newcomer
<i>American Studies</i> |
| Edwin Allen Huston
<i>Economics</i> | Richard Hall Nicholls
<i>Economics</i> |
| Newton Laurence Jassie
<i>Biology</i> | Malcolm Foertner Nicol
<i>Chemistry</i> |
| Robert Allen Jewett
<i>English</i> | Robertson Parkman
<i>Chemistry</i> |
| Thomas Barland Keith, II
<i>Biology</i> | Thomas Lynn Paulson
<i>Mathematics</i> |
| John Gallatin Kirk
<i>Astronomy</i> | John Morley Pierce
<i>Physics</i> |
| Hugh Heath Knapp
<i>History</i> | Roger Sherman Pratt
<i>English</i> |

David Allan Purdy
American Studies

John Ramsey Raye
Biology

Stephen Bunker Rohrbaugh
American Studies

Keith Samuel Rosenn
American Studies

Sanderson Morris Smith
Mathematics

Frederic Sylvester Snyder, II
History

Norman Albert Spencer
Physics

Thomas Van Orden Urmey, Jr.
Political Science

Pieter Cornelius van den Toorn
Music

Richard Carl Wechsler
Classics

William Morrow Weiant
Economics

R. Stanton Wettick, Jr.
Economics

David Laurie Wilson
English

Morris Flarsheim Wise
Biology

David Van Voorhis Wood
English

Shintaro Yamashita
Political Science

Paul David Zimmerman
English

Rite

Julius Cadden Allen

Jonathan Benjamin Baker

Charles Stephen Baldwin

Steven Barbash

Jay Gold Barnett

Noel Sloane Bartlett

John Rhodes Bates

Brian Beer

Pedro Belli y Alfaro

Putnam Pope Breed

Peter Frederic Breitenstein

Richard Allan Brisk

John Goodwin Buchanan

John Zane Bulkeley

Daniel Boardman Bump

Arthur Albert Capone

Reuben Anderson Clay, Jr.

Charles Wilbar Cobb

Edward Alan Cohen

William George Colby, Jr.

Charles Thompson Collins

Owen Robert Connolly

Stuart William Cook, Jr.

William J. Corbett, Jr.

John Russell Cornell

Albert Wayne Coy, Jr.

Isaiah Thornton Creswell, Jr.

James Edward Crowley

Raymond Anthony D'Alvia

Daniel de Schweinitz Darrow

William Walker Dillon

Kenneth Faustino DiNisco

Leon Joseph Du Bois

John Blaine Durrell

Thomas Putnam Elder

Albert Hessel Fine

Jonathan Friendly

Richard Leonard Gernold

Darold Irving Greek, Jr.

Samuel Roby Hanford

Philip Mitchell Hatfield

James Joseph Healy

William Edwin Heaton, Jr.

John Allen Henry

Charles Howard Holland	Wilson Hill Rains
Robert Louis Hollis	Clyde Edward Rapp, Jr.
Gordon Holmes, Jr.	Jonathan Rappoport
Charles David Hosford	Stanley Williams Rhodes
Bruce Willis Hutchinson	Stuart Ramage Rose
Peter Vincent Inskeep	Kenneth Rosenthal
George Robert Ittel	Martin Bennett Schneider
Charles Wadsworth Johnson, III	James Wesley Schumacher
Richard Emmett Keady	David Irwin Shactman
Francis Taber Keally	Thomas Burt Shick
David Ralph Keffer	Thomas Alvah Shumaker
Frederick Eastman Kelley	John Crewe Slocumb
Russell John Kirschenbaum	Jeffrey Flood Snyder
Peter Clark LaRowe	Harry Adam Sonnenschein
Robert Lyman Leach	Robert Hampton Steele
John McCollum Lord	Edward John Stempien, Jr.
Robert Edwin McBride	James Sydney Stillman, III
Phillip Hutson McClure	Stephen Dean Storey
Wade Sammis MacConnell	Thomas Van Swearengen
John Lee McDowell, III	John Franklin Swope
John William McKenna	Stephen Park Swope
Robert Leslie McRoberts	James Michael Taylor
David Morrill Mace	Blair Hamilton Turner
Robert Francis Madgic	William Fredrick Vickers
John Gunther Mann, Jr.	Charles Henry Wallas
Charles Marvin, III	Robert Ralph Weiser
Roland Merritt Miller	Alan Raymond Wentzel
Pyong Re Min	John M. Wessner
Joseph Kearney Moriarty	Peter Walter Westcott
George Geoffrey Morton	Nicholas William George Wilder
Stephen Lee Nisbet	George Frederick Will, Jr.
Bruce Edgar Northrup	Harold Kenneth Wood, Jr.
Henry Donald Parry	Timothy Frederick Woodbridge
David Spanton Pennock	George Edward Woody
Donald Robert Pettit	Robert Alan Zeckhauser
Curtis Richard Platte, Jr.	Joseph Frank Zgrodnik
Donald David Pollock	John Leverett Ziegler
John Anderson Quisenberry	

Honorary Degree Conferred October 24, 1959

DOCTOR OF LAWS
Jeffery John Archer Amherst
Earl Amherst

Honorary Degrees Conferred June 12, 1960

MASTER OF SCIENCE
Howard Ketcham, 1925

DOCTOR OF HUMANE LETTERS
John Merriman Gaus, 1915
Sidney Raymond Packard, 1915

DOCTOR OF DIVINITY
John Harris Burt, 1940

DOCTOR OF LAWS
William Henry Hastie, 1925
Thomas Corwin Mendenhall
Anna Eleanor Roosevelt
Charles Woolsey Cole, 1927

Medals for Eminent Service Awarded June 12, 1960

Leonard Kent Guiler, 1935
Robert Whitelaw Wilson, 1930

IV

Enrollment

Enrollment

FALL SEMESTER

1960-1961

Graduate Students

Faustino, José Martinez
Huss, Robert Vail
Rice, Elizabeth Rose
Robertson, Jerald Lee
Taketomi, Tamotsu
Trapp, Edward Louis

New Manila, Philippines
Newton Center, Mass.
West Concord, Mass.
Elmwood Place, Ohio
Nagasaki, Japan
Pittsburgh, Pa.

Class of 1961

Aldrich, Ralph Edward
Alschuler, Alfred Samuel, III
Andrews, Hugh Blackledge
Anthony, Cushman Dodge
Bailey, Thomas Emerson
Bair, Gary
Baker, George Griffith
Barber, Edwin Lamont, III
Barnett, Walter Whitney
Barrett, Robert Scott
Bender, James Jay
Berek, Peter
Berryman, Charles Beecher
Bixler, Sidney Rodgers
Blaich, Charles Richard
Blanck, Robert Murison
Bookwalter, James Richard
Bornemann, David Richardson
Bracciotti, Paul Roger
Bricker, David Carroll
Brower, Jonathan Porter
Browning, Robert Eugene
Buchan, David Alexander
Bursk, John Howard
Carlson, Gustaf Brainard
Cheska, John Charles, Jr.
Chotkowski, Charles Joseph
Clifford, Denis Joseph
Colvin, Timothy James
Crooks, Arthur Hew Dalrymple
Daitz, Ronald Frederick

East Douglas, Mass.
Highland Park, Ill.
West Hartford, Conn.
Newton Centre, Mass.
Philadelphia, Pa.
Pleasantville, N. Y.
Pittsburgh, Pa.
Alexandria, Va.
Glastonbury, Conn.
Clayton, Mo.
Long Beach, N. Y.
Brooklyn, N. Y.
Jamaica, N. Y.
Winchester, Mass.
Poughkeepsie, N. Y.
Freeport, N. Y.
Columbiana, Ohio
Havertown, Pa.
Stoneham, Mass.
St. Louis, Mo.
Belmont, Mass.
Chappaqua, N. Y.
Hillburn, N. Y.
Cohasset, Mass.
Deep River, Conn.
Wantagh, N. Y.
Fairfield, Conn.
Montclair, N. J.
Arlington Heights, Ill.
London, Ontario, Canada
Brooklyn, N. Y.

- Dalsimer, Timothy Allan
 Deane, Stuart Sneed
 De Cicco, Peter Donald
 Deisroth, Peter Brundage
 Denny, Harry, III
 Denny, Robert Francis, Jr.
 Derby, Joseph Patrick, Jr.
 Dimond, Richard Charles
 Doerfer, Gordon Lee
 Drew, Richard Alan
 Dudley, Earl Carlyle, Jr.
 Duethorn, Guenter Anton
 Dunkman, William Bruce
 Easterling, Jack LeRoy
 Ells, Theodore Fischer
 Engelhardt, Dean Lee
 Estey, Frederick Russell
 Fairchild, Paul Warner, Jr.
 Fechheimer, Fred J.
 Fentress, John Carroll
 Fletcher, James Preston
 Flood, Charles Andrew
 Fox, Eric Roger
 Francesconi, Ralph Paul
 Franklin, Wesley Erwin
 Frederick, Kenneth Dyer
 Fujikura, Koichiro
 Garner, Dennis Gary
 Garrett, George Kendall
 Garrison, Lester LeRoy
 Gates, Jonathan Leland
 Goldberg, James Franklin
 Goldreyer, Bruce Neil
 Goodhue, William Washburn
 Gordon, Jeffrey Harold
 Greenbaum, Alan Lester
 Greene, James Wilson, II
 Greene, Lowell Hampton, Jr.
 Grose, Christopher Waldo
 Grossman, Paul
 Hamilton, David Bailey
 Harper, Robert Leslie
 Harrison, Hall Edward
 Cedarhurst, L. I., N. Y.
 Rock Tavern, N. Y.
 Port Chester, N. Y.
 Hazleton, Pa.
 New York, N. Y.
 Mexico, Mo.
 Springfield, Mass.
 Paterson, N. J.
 Bethesda, Md.
 Hartford, Conn.
 McLean, Va.
 Hyattsville, Md.
 Rochester, N. Y.
 Cincinnati, Ohio
 Litchfield, Conn.
 Pasadena, Calif.
 Norwood, Mass.
 Hinsdale, Ill.
 Detroit, Mich.
 Chevy Chase, Md.
 Darien, Conn.
 New York, N. Y.
 Rockville Centre, N. Y.
 Milford, Mass.
 Moscow, Pa.
 Providence, R. I.
 Tokushimaken, Japan
 Ferguson, Mo.
 Swarthmore, Pa.
 Wilmette, Ill.
 Weston, Mass.
 Washington, D. C.
 Jamaica, N. Y.
 Laconia, N. H.
 Albany, N. Y.
 New York, N. Y.
 Angola, N. Y.
 Signal Mountain, Tenn.
 Amherst, Mass.
 Palo Alto, Calif.
 Marshall, Mo.
 Rochester, N. Y.
 St. Louis, Mo.

Harriss, Richard Tompkins
 Haskell, Wyatt Rushton
 Hassel, Jon Brian
 Hatch, Theron MacDowell, III
 Havighurst, Douglas Alfred
 Haynes, Walter Dunlop
 Heermance, J. Noel
 Herrick, Walter Dwight, III
 Higgins, Douglas
 Hill, Henry Albert, Jr.
 Hill, James William, III
 Hinds, Alfred Boyd, Jr.
 Hobbs, Donald Nichols
 Hooton, Arthur
 Hopkins, Thomas Alexander
 Horton, Timothy Warner
 Howland, Richard Moulton
 Hurlbert, Stuart Hartley
 Husbands, Charles William
 Inglis, Richard, III
 Janes, Alexander Leslie
 Johnson, David, III
 Johnson, James Stanley, Jr.
 Johnson, Steven Brian
 Jones, Theodore Charles
 Junker, Howard Henry
 Kaufman, Thomas Howard
 Keener, Harry Alan
 Keith, William Bradford
 Klein, Richard Benson
 Kneisly, John Amos, II
 Knight, Kirk Lay
 Knight, William Nicholas
 Knipp, Charles Christopher
 Knowles, Stephen Howard
 Kohn, Monroe Alan
 Kohn, Thomas Edward
 Kozera, Richard John
 Krismann, Theodore Cheff
 Kugler, Robert Alexander
 Kuhn, Peter Pangman
 Kuklis, Robert Darryle
 Landy, Arthur Haym

Fairfield, Conn.
Birmingham, Ala.
Lakewood, Colo.
Melrose, Mass.
Shaker Heights, Ohio
Washington, D. C.
New Rochelle, N. Y.
River Forest, Ill.
Orleans, Mass.
Princeton, N. J.
Owings Mills, Md.
Bronxville, N. Y.
St. Louis, Mo.
Danbury, Conn.
Pittsburgh, Pa.
Saddle River, N. J.
Amherst, Mass.
Wellesley Hills, Mass.
Littleton, Colo.
Shaker Heights, Ohio
Minneapolis, Minn.
Gates Mills, Ohio
Altadena, Calif.
Pelham, Mass.
Vincentown, N. J.
New York, N. Y.
Winnetka, Ill.
Akron, Ohio
Brockton, Mass.
Philadelphia, Pa.
Frostburg, Md.
Darien, Conn.
Manchester, Conn.
Baltimore, Md.
Northport, N. Y.
Bridgeport, Conn.
Milwaukee, Wis.
Hadley, Mass.
Akron, Ohio
Winchester, Mass.
Paget, Bermuda
Darien, Conn.
Philadelphia, Pa.

Lee, Young Ho	<i>Kyung-puk, Korea</i>
Leeder, Robert John	<i>Providence, R. I.</i>
Levine, Mark Roger	<i>University Heights, Ohio</i>
Lewis, Roscoe Conklin, III	<i>Washington, D. C.</i>
Liebson, John David	<i>Richmond Heights, Mo.</i>
Locke, John Johnson, Jr.	<i>Carmel, N. Y.</i>
Long, James Edward	<i>Holyoke, Mass.</i>
Luttmann, Frederick William, Jr.	<i>Chappaqua, N. Y.</i>
Lyon, John Wilson	<i>Claremont, Calif.</i>
Mague, Joel Tabor	<i>Millbridge, Me.</i>
Mallory, Andrew	<i>Havertown, Pa.</i>
Martula, Richard John	<i>Hadley, Mass.</i>
Masters, Stanley Hinman	<i>Winchester, Mass.</i>
Menschel, Stephen	<i>Woodmere, N. Y.</i>
Merritt, John Otis	<i>Williamsburg, Mass.</i>
Morrow, Stephen	<i>Katonah, N. Y.</i>
Mossman, Donald Petithory, III	<i>Brewster, N. Y.</i>
Munoz, Thomas Adolfo	<i>Caracas, Venezuela</i>
Myers, Howard Barton, Jr.	<i>Washington, D. C.</i>
Naess, Michael Ragnar	<i>New Canaan, Conn.</i>
Neal, Mansfield Castleton, Jr.	<i>Washington, D. C.</i>
Neale, Henry	<i>Scarsdale, N. Y.</i>
Neimeyer, Harry Talbot	<i>Duluth, Minn.</i>
Nemet-Nejat, Murat	<i>Istanbul, Turkey</i>
Newcomb, Leonard Shelton	<i>LaGrange, Ill.</i>
Noyes, James Walton	<i>Swarthmore, Pa.</i>
Obre, Paul Lippincott	<i>Great Neck, L. I., N. Y.</i>
Olesker, Landis	<i>New York, N. Y.</i>
Otterstrom, James Rutger	<i>Darien, Conn.</i>
Owen, Robert Ancurin	<i>Wayzata, Minn.</i>
Park, Tae Wi	<i>Taegu, Korea</i>
Parks, John Scott	<i>Washington, D. C.</i>
Pearsall, Edward Spaulding	<i>Hewlett, N. Y.</i>
Pennington, Roger Bower	<i>Summit, N. J.</i>
Perabo, Frederick Hernan	<i>Plainfield, N. J.</i>
Perkins, William Robert, III	<i>Washington, D. C.</i>
Perlbinde, Stephen	<i>Hewlett Bay Park, N. Y.</i>
Peyrelongue, Hervé Marie Joseph	<i>Paris, France</i>
Poler, Henry Saylor	<i>Bronxville, N. Y.</i>
Poulimenos, Peter	<i>Watertown, Mass.</i>
Powell, David Edward	<i>New York, N. Y.</i>
Pratt, William Porter, Jr.	<i>Hingham, Mass.</i>
Raleigh, Walter Joseph, Jr.	<i>Darien, Conn.</i>

Muzzarelli, Umberto, T.

Italy

Rand, Philip Tyler
 Rapp, William Venable
 Ratzan, Kenneth Roy
 Raub, William Longstreth, III
 Rein, Bert Walter
 Rhines, Christopher Symonds
 Richardson, Joseph White
 Ring, David Mellor
 Rogers, Peter Leslie
 Ronveaux, John Arthur
 Rosengard, Robert Simon
 Rosengren, C. Jon
 Ross, Norman Clark
 Sargent, Robert Anders
 Savage, John Edward, Jr.
 Scattergood, Joseph, III
 Schuster, George Slade
 Schwartz, Peter Damon
 Shasha, Gilbert Roger
 Shaw, Stewart Henry
 Shawwaf, Saud Mohammed Ali
 Shedler, Gerald Stuart
 Sheehan, Laurence Francis
 Shepley, Steven Charles
 Sheppard, Robert Allen
 Shoemaker, Robert Worrall
 Siegel, Robert
 Slade, Norman Timothy
 Slight, William Wellington Ent
 Slobodin, Arthur Gregory
 Snyder, Stuart Grant
 Sokaris, Peter Gregory
 Spence, Warren Andrew
 Spire, Richard Lee, II
 Steinle, Paul Michael
 Stiglitz, Mark Lawrence
 Strobel, Reaves Ewalt
 Stromberg, Kurt Jay
 Sullivan, Arthur Ambrose, Jr.
 Szczepanek, Paul Stanley
 Szlosek, Richard Walter
 Taylor, James Gary
 Teiwes, Frederick Carl

Egypt, Mass.
New York, N. Y.
Cedarhurst, N. Y.
Winnetka, Ill.
Brooklyn, N. Y.
Glastonbury, Conn.
Lexington, Va.
Rumford, R. I.
West Hartford, Conn.
Fishkill, N. Y.
Brookline, Mass.
Fergus Falls, Minn.
Gloucester, Mass.
New York, N. Y.
Towson, Md.
West Chester, Pa.
Rochester, Minn.
Santurce, Puerto Rico
New London, Conn.
Meriden, Conn.
Damascus, U.A.R.
Forest Hills, N. Y.
Hamden, Conn.
Port Washington, L. I., N. Y.
Wayne, N. J.
Franklin, N. J.
Nutley, N. J.
White Bear Lake, Minn.
West Hartford, Conn.
Lansdale, Pa.
Portland, Me.
Albany, N. Y.
Port Washington, N. Y.
Washington, D. C.
Sidney, Ohio
Gary, Ind.
New York, N. Y.
Albuquerque, N. M.
Wilmette, Ill.
Ware, Mass.
Northampton, Mass.
Denver, Colo.
Hastings-on-Hudson, N. Y.

Scanton, Lee F.

Cromwell, Conn.

Thatcher, Philip King	<i>Reno, Nev.</i>
Thomason, Melville Campbell	<i>Lenox, Mass.</i>
Thompson, Arthur Rumford, III	<i>Seattle, Wash.</i>
Thompson, Robert Sharpe	<i>Chevy Chase, Md.</i>
Todd, Edward Stephen	<i>Chicago, Ill.</i>
Touborg, Jens Nicolai Friis	<i>Tecumseh, Mich.</i>
Tufts, David Tamblyn	<i>Burbank, Calif.</i>
Turner, John Gosney	<i>Longmeadow, Mass.</i>
Twombly, Alexander Stevenson, III	<i>North Andover, Mass.</i>
Ullman, Richard Leo	<i>Hockessin, Del.</i>
Updike, Charles Bruce	<i>Scarsdale, N. Y.</i>
van Dyck, Olin Blair	<i>Rochester, N. Y.</i>
Van Tassel, Eric Robert	<i>New York, N. Y.</i>
Varmus, Harold Eliot	<i>Freeport, N. Y.</i>
Venman, Robert Lyon	<i>Bridgeport, Conn.</i>
Vessclago, Michael George	<i>Philadelphia, Pa.</i>
Walker, Bruce Howlett	<i>Bronxville, N. Y.</i>
Wallace, Fred Lewis	<i>Toledo, Ohio</i>
Ward, Peter Cowgill	<i>Haverford, Pa.</i>
Weiner, Robert Gills	<i>West Hartford, Conn.</i>
Wendler, John Wallace	<i>Tonawanda, N. Y.</i>
Whitehead, Lewis Richard, Jr.	<i>Seymour, Conn.</i>
Whitney, George Crosier, III	<i>Geneva, N. Y.</i>
Whitney, John Sargent, Jr.	<i>Middleburg, Va.</i>
Whyte, Frederick Edwin	<i>Claremont, Calif.</i>
Willard, Bruce Everett	<i>East Hartford, Conn.</i>
Williams, Robert Wade	<i>Medfield, Mass.</i>
Willis, John Richard	<i>Cape Elizabeth, Me.</i>
Wilson, Richard Chase	<i>Pitman, N. J.</i>
Wirtz, Richard Stanley	<i>Winnetka, Ill.</i>
Wood, James Thornton	<i>Schenectady, N. Y.</i>
Wood, Jeremiah, III	<i>Gloversville, N. Y.</i>
Wood, Thomas Edward	<i>Sherman Oaks, Calif.</i>
Woodcock, John Alexander	<i>Huntington, N. Y.</i>
Yamashita, Eiro	<i>Tokyo, Japan</i>
Young, Evan Charles	<i>Akron, Ohio</i>
Young, Ralph Aubrey	<i>Washington, D. C.</i>
Zajchowski, Richard Allen	<i>Chicopee, Mass.</i>
Zeitler, Richard	<i>New York, N. Y.</i>

Class of 1962

Abodecely, Paul Albert	<i>Worcester, Mass.</i>
Adams, Donald Bradshaw	<i>Riverside, Conn.</i>

Alcala, Roger Ellis
 Allard, Robert Gordon
 Allen, James DeWolfe
 Anthony, Robert Williams
 Aplington, James Page
 Arbuthnot, David Holt
 Ardifi, Ralph Ernest, Jr.
 Asomura, Kuniaki
 Barnes, Alexander Edward
 Barnes, Timothy Earl
 Barney, Howard Hunter
 Beck, Laurence Holland
 Bellows, Peter Heacock
 Berger, Howard Stephen
 Berman, Morton Henry
 Bevis, George Randolph
 Beyea, Jan Edgar
 Biddle, William Eugene, III
 Blood, David King
 Blue, Anthony Dias
 Boeschstein, Warren Clifford
 Boesel, Frank Tilden
 Bogosian, Robert Eznick
 Bond, David Crocker
 Braemer, Richard Jeffrey
 Braun, David Kent
 Brecher, Joseph Jay
 Brittan, Gordon Goodhue, Jr.
 Brockington, Philipp Ludwig
 Broughton, Richard Glover
 Brown, Peter Ogden
 Bryant, Courtney Stager
 Buchwald, Irwin Allan
 Buck, Jeffery Edward
 Carmany, George Walter, III
 Carpenter, Christopher Jenns
 Carpenter, Luther Pirie
 Catron, James Granville
 Chace, Hugh Ross, Jr.
 Chadys, Joel Louis
 Chambers, Reid Peyton
 Christaldi, Brian
 Cisney, William Curran

New York, N. Y.
Norwood, R. I.
Shaker Heights, Ohio
Providence, R. I.
Columbus, Ohio
Geneva, Switzerland
Danvers, Mass.
Akita City, Japan
Boston, Mass.
Hastings-on-Hudson, N. Y.
Mobile, Ala.
Wilmington, Del.
Mamaroneck, N. Y.
Jamaica, N. Y.
Brooklyn, N. Y.
Excelsior, Minn.
Brooklyn, N. Y.
Auburndale, Mass.
Leonia, N. J.
Larchmont, N. Y.
St. Louis, Mo.
Milwaukee, Wis.
Cliffside Park, N. J.
Norwell, Mass.
Philadelphia, Pa.
Bronxville, N. Y.
Brooklyn, N. Y.
Winnetka, Ill.
Chesterton, Ind.
Amherst, Mass.
Ithaca, N. Y.
Greene, N. Y.
Brooklyn, N. Y.
Amherst, Mass.
Westhampton Beach, L. I., N. Y.
San Francisco, Cal.
Grand Rapids, Mich.
Springfield, Mass.
Ridgewood, N. J.
New Haven, Conn.
Washington, D. C.
Upper Montclair, N. J.
Racine, Wis.

Clark, Barkley	<i>Denver, Colo.</i>
Clark, Charles Kilburn	<i>Wellesley Hills, Mass.</i>
Clark, Daniel Cooper	<i>Grafton, Mass.</i>
Clinton, James Sanford	<i>Omaha, Neb.</i>
Cohler, Charles Benjamin	<i>Highland Park, Ill.</i>
Cook, Robert Stansfield, Jr.	<i>Fayetteville, N. Y.</i>
Cordonnier, Justin Caulfield	<i>St. Louis, Mo.</i>
Cotignola, Anthony Ralph	<i>Merrick, N. Y.</i>
Cronnell, Bruce Albert	<i>Dalton, Mass.</i>
Crowell, John Wayman	<i>Cheshire, Conn.</i>
Cruikshank, David Lincoln	<i>East Longmeadow, Mass.</i>
Deaett, Alan Kenneth	<i>East Providence, R. I.</i>
Detterick, John Judd	<i>Las Vegas, N. M.</i>
Dickey, John Alan	<i>Shaker Heights, Ohio</i>
Diem, Michael Henry	<i>Litchfield, Conn.</i>
Ditzian, Michael David	<i>Rockville Centre, N. Y.</i>
Drake, Rossiter Jerome, Jr.	<i>Westport, Conn.</i>
Dunphy, James Francis	<i>Milton, Mass.</i>
Duryea, Peter Lane	<i>Hollywood, Calif.</i>
Duryee, John Sauge	<i>Summit, N. J.</i>
Duvall, Robert Lee, Jr.	<i>Huntington, N. Y.</i>
Elia, Philip Russell	<i>Boston, Mass.</i>
Elliott, Bruce Moore	<i>Waterford, Conn.</i>
Ellsworth, Michael Hamilton	<i>Brooklyn, N. Y.</i>
Elwell, David Leslie	<i>Newtown, Pa.</i>
Epstein, Jeffrey Michael	<i>Roslyn Heights, N. Y.</i>
Evans, Bruce Haselton	<i>Rome, N. Y.</i>
Evers, Timothy Banks	<i>Glenbrook, Conn.</i>
Farnum, Bruce Edward	<i>Athol, Mass.</i>
Fieger, Henry George, Jr.	<i>Bronxville, N. Y.</i>
Fields, Gilbert Alan	<i>West Newton, Mass.</i>
Fink, Gerald Ralph	<i>Freeport, N. Y.</i>
Freedman, Henry Allen	<i>Baltimore, Md.</i>
Freeman, Joseph Wood, Jr.	<i>Mountainside, N. J.</i>
Freeman, William LeClair	<i>Swansea, Mass.</i>
Fretz, Burton David	<i>North Newton, Kan.</i>
Friedrich, David Edward	<i>Bronxville, N. Y.</i>
Gardiner, Richard	<i>Forest Hills, N. Y.</i>
Gesing, Rand William	<i>Andover, Mass.</i>
Glass, Joseph Victor	<i>Brooklyn, N. Y.</i>
Glen, Jeffrey Elias	<i>Milwaukee, Wis.</i>
Goetzl, Edward Joseph	<i>Amherst, Mass.</i>
Gordon, Charles Chasins	<i>Baltimore, Md.</i>

Gossett, Philip Edward
 Gottlieb, Jeffrey Arnold
 Gould, James Bernhard
 Guest, James Alfred, Jr.
 Gutcheon, Jeffrey David
 Hahn, Edwin Charles, III
 Hanford, Thomas Terry
 Harbison, Robert Dale
 Hauschka, Stephen Denison
 Hayes, John Thompson
 Hazlett, John Arbenz
 Heebner, George Kenneth
 Heitler, Dean J.
 Heitler, Don A.
 Heller, Arthur Paul
 Henningsen, Philip Roseman
 Henry, Lowell Albert, Jr.
 Hersh, Stephen Peter
 Hoeldtke, Robert Daniel
 Hudspeth, William Junia, Jr.
 Hughes, Edward Francis Xavier
 Jardine, David Ramsay
 Jardine, William Sherman
 Johnson, Edward Theodore, II
 Jones, Henry Warren, Jr.
 Jones, Peter Radcliffe
 Kabatznick, Joel Max
 Kaplan, Paul Elias
 Kiely, John Roche
 Kirschenbaum, Ira Norman
 Kolman, Theodore Robert
 Krick, James Allan
 Kriegel, Jay Lawrence
 Krone, Howard Barry
 Kwass, Walter
 Landfield, Richard
 Landon, Robert Donald Wike, II
 Lavery, Hugh Joseph
 Lawrence, David McKinnon
 Leach, Rice Cowan
 Lees, Andrew
 Lehman, Jay Stauffer
 Lehr, James Louis

Forest Hills, N. Y.
Mount Vernon, N. Y.
Great Neck, N. Y.
Amherst, Mass.
New York, N. Y.
Scarsdale, N. Y.
Rochester, N. Y.
Carlisle, Pa.
Buffalo, N. Y.
Worcester, Mass.
Wheeling, W. Va.
Lafayette Hill, Pa.
Denver, Colo.
Denver, Colo.
Brooklyn, N. Y.
Milwaukee, Wis.
Cleveland, Ohio
New York, N. Y.
Buffalo, N. Y.
Houston, Texas
Roslindale, Mass.
Lyndonville, Vt.
Albany, N. Y.
Cleveland, Ohio
Guilford, Conn.
Woodstock, N. Y.
Westbrook, Conn.
Mount Vernon, N. Y.
Woodside, Calif.
Brooklyn, N. Y.
Normandy, Mo.
Washington, D. C.
Brooklyn, N. Y.
Jamaica, N. Y.
Brooklyn, N. Y.
Glencoe, Ill.
Vestal, N. Y.
Bridgeport, Conn.
Portland, Ore.
Louisville, Ky.
Glenside, Pa.
Ardmore, Pa.
Kirksville, Mo.

Leland, William Lewis	Scarsdale, N. Y.
Lelewer, David Kann	Glencoe, Ill.
Lewis, John Manwell	Pittsburgh, Pa.
Lilienthal, Philip Howard	New York, N. Y.
Lindsley, Herbert Benzinger	Wichita, Kan.
Lowy, Martin Eric	New York, N. Y.
Lyons, Dudley Emerson	New York, N. Y.
McDermott, John William, Jr.	Wolfeboro, N. H.
McGeorge, Douglas Reynolds	Long Beach, Calif.
McGowan, Thorburn Jackson	New London, Conn.
Mahar, Robert Lee	Northville, N. Y.
Marsden, Charles Joseph	Pelham, N. Y.
Marshall, George Dwire	Chevy Chase, Md.
Mason, Benjamin Allen	Waterbury, Vt.
Meyrowitz, Ralph Eugene	Syosset, N. Y.
Miani, Phillip Nicholas	Evergreen Park, Ill.
Mignone, Robert Joseph	North Haven, Conn.
Miike, Lawrence Hiroshi	Honolulu, Hawaii
Miller, John Peter	New York, N. Y.
Mittenthal, Jay Edward	Louisville, Ky.
Montgomery, Roger Edmund	Minneapolis, Minn.
Moorhouse, John Pancoast, Jr.	Ambler, Pa.
Morgan, Craig Humphrey	Gaithersburg, Md.
Morris, George Washington	South Orange, N. J.
Mosshammer, Alden Adams	White Plains, N. Y.
Mullane, Patrick Nicholas	New York, N. Y.
Muzzarelli, Uberto Tommaso	Fermo, Italy
Neal, John Bentley	White River Junction, Vt.
Nichols, David Ackart	Wilmington, Del.
Nichols, George Nicholas	Stamford, Conn.
Niskanen, Anthony Stuart	Philadelphia, Pa.
Nixon, Robert Leon	Glen Ridge, N. J.
Nugent, Richard Recher	Reading, Pa.
Olanoff, Martin	Brooklyn, N. Y.
O'Mara, Kevin James	Wethersfield, Conn.
Oppenheim, Mark Joel	Scarsdale, N. Y.
Pagnini, David Tulio	Milford, Mass.
Parsons, Sidney Bailey	Amherst, Mass.
Pasmantier, Mark	Cedarhurst, N. Y.
Pauls, Richard Dayton	Sheboygan, Wis.
Paulson, Allan Roy	Brookline, Mass.
Paxson, Dean Allen	Cedar Rapids, Iowa
Perera, David Rhoads	New York, N. Y.

Perlman, Lee Alfred
 Perlmutter, Jeremy Frederick
 Peterson, Richard Clark
 Pflaum, Stephen Rothschild
 Pochoda, Daniel Joseph
 Pohl, Marc Alfred
 Prigge, William Nixon
 Randall, Michael Larry
 Randell, Ralph Gilbert
 Reiskind, Jonathan
 Rice, Jonathan Philip
 Richmond, Stewart Samuel
 Rieckhoff, James William
 Robey, Bryant
 Roll, David Lee
 Rosenthal, Peter Norman
 Rothstein, Jerold Michael
 Rousseau, George Sebastian
 Sadin, Edward Barry
 Sadler, Alfred Mitchell, Jr.
 Sadler, Blair Leamer
 Sayers, Lewis Howard
 Sayles, Frederick Livermore
 Schuker, Theodore Beryl
 Schultz, David Joel
 Schwartz, Andre A.
 Scolnick, Tony
 Scott, Jonathan Fletcher
 Sheridan, Michael Francis
 Sherwood, Paul Jay
 Short, Alexander Campbell
 Shrager, James Jay
 Siegler, Richard
 Sill, Peter Lewis
 Simpson, John Evan
 Skillman, Stephen Lee
 Smith, David Nevin, Jr.
 Spencer, George Henry, Jr.
 Stearns, Warren Charles
 Stender, Charles Danner
 Stewart, Foster Ashe
 Stewart, Glenn Alexander
 Stoever, William Alfred

Larchmont, N. Y.
Poughkeepsie, N. Y.
Reading, Mass.
Wayzata, Minn.
Riverdale, N. Y.
University Heights, Ohio
Northport, N. Y.
Merrick, N. Y.
Jamestown, N. Y.
Staten Island, N. Y.
South Hadley, Mass.
Concord, N. H.
Evanston, Ill.
Cleveland Heights, Ohio
Grosse Pointe, Mich.
New York, N. Y.
Mount Vernon, N. Y.
Brooklyn, N. Y.
Lawrence, L. I., N. Y.
Allentown, Pa.
Allentown, Pa.
Walpole, Mass.
Freeport, Maine
Forest Hills, N. Y.
Washington, D. C.
Shaker Heights, Ohio
Bayonne, N. J.
Kansas City, Mo.
West Suffield, Conn.
Hicksville, N. Y.
Alexandria, Va.
Plainfield, N. J.
Yonkers, N. Y.
Margate City, N. J.
Sacramento, Calif.
Maplewood, N. J.
Rydal, Pa.
Traskwood, Ark.
Evanston, Ill.
Webster Groves, Mo.
Pittsburgh, Pa.
Ellensburg, Wash.
Carbondale, Ill.

Tappert, George Reinhold
 Tapply, William George
 Tatham, Campbell
 Teachout, Peter Read
 Todd, Samuel Richard, Jr.
 Vanags, Intis
 Van De Graaff, Merrill
 Van Nort, Steven Danforth
 Walter, Joseph Jackson
 Ward, John Arthur, Jr.
 Ward, Stephen Edmund
 Weber, Wilmer Michael
 Webster, William Harvey, III
 Weiss, Lawrence
 West, Joseph Thomas, Jr.
 Wheeler, Porter King
 Wheeler, Timothy Lukes
 Whitehead, Lewis Richard, Jr.
 Wiener, James Ralph
 Willing, Andrew Russell
 Wilson, Douglas Cook
 Witwer, John Price
 Wolf, Thomas Anthony
 Wolff, David Stephen
 Woodhouse, Thomas Edwin
 Woodworth, Fred Lowe
 Yanofsky, Saul Myer
 Young, John Marshall

Philadelphia, Pa.
Lexington, Mass.
Ossining, N. Y.
Montpelier, Vt.
Darien, Conn.
Pittsburgh, Pa.
Ogden, Utah
Chagrin Falls, Ohio
Swarthmore, Pa.
Riverside, Ill.
Glen Ridge, N. J.
Sheboygan, Wis.
West Hartford, Conn.
Rockville Centre, N. Y.
Hinsdale, Ill.
Anniston, Ala.
Sequim, Wash.
Seymour, Conn.
New Rochelle, N. Y.
Mount Vernon, N. Y.
Bloomington, Ind.
Radnor, Pa.
Albuquerque, N. M.
Elkins Park, Pa.
Cedar Rapids, Iowa
Birmingham, Mich.
Brookline, Mass.
Ditchley, Va.

Class of 1963

Aber, William Lemmel
 Ablon, Steven Luria
 Adams, Douglas Neale
 Adler, Stephen Charles
 Afton, John Laun
 Allen, Leon Kenneth
 Amend, William John Conrad, Jr.
 Anderson, Carl Edward, Jr.
 Andrews, James Einar
 Aplington, Robert Kumpf
 Arkin, Stephen Elias
 Arling, Gary Lester
 Aurand, Benjamin Kyte

Jefferson City, Mo.
New York, N. Y.
Jacksonville, Fla.
Gouverneur, N. Y.
Palo Alto, California
Paterson, N. J.
Wilmington, Del.
Plainfield, N. J.
St. Paul, Minn.
Columbus, Ohio
Brooklyn, N. Y.
Joliet, Ill.
Des Moines, Iowa

Austin, Stephen Mark
 Barnett, Peter MacDowell
 Bartlett, Richard Walter
 Bartolomci, Roy L.
 Bateman, George Rotan
 Batman, William Everett
 Becker, Lawrence Wilfred
 Bergmann, Johannes Dietrich
 Bergner, Alfred Paul
 Bernstein, Alan Saul
 Best, Frank Valentine, Jr.
 Bird, James Cooper
 Blanchard, Wyland Leadbetter
 Booth, Derek Leslie
 Bosworth, Robinson, III
 Bowden, Alan Bruce
 Boyce, Benjamin Elisha
 Boyer, John Frederick
 Bragg, Franklin Everett, II
 Brainard, Richard Holston
 Brainerd, Alexander Lamb
 Brookes, Gerry Harding
 Brumm, Gregg Edward
 Bryant, Stephen Palmer
 Buckley, Neill Kerry
 Burns, Walter Xavier
 Cain, Stephen Gilbert
 Caldwell, John Dean
 Carpenter, Gordon Ambler
 Clapham, Wentworth Beggs, Jr.
 Clark, Peter Frank
 Clauson, James Wilson, Jr.
 Cohen, Jerome
 Colton, Donald Stevens
 Conger, Seymour Beach, III
 Crampton, John Philip
 Crosby, Richard Wheeler
 Cushman, Louis Blauvelt
 Daniel, Alan
 Danzis, Alan Lee
 Davidson, Richard Bartlett
 Davis, William Alexander, Jr.
 Derr, John Sebring

Long Beach, N. Y.
 Williamstown, Mass.
 Duxbury, Mass.
 Massapequa, N. Y.
 Houston, Texas
 Larchmont, N. Y.
 West Berne, N. Y.
 New Haven, Conn.
 New York, N. Y.
 Chevy Chase, Md.
 Weston, Mass.
 Baltimore, Md.
 Rochester, N. Y.
 Boonton, N. J.
 Milwaukee, Wis.
 Pittsburgh, Pa.
 New Hampton, N. Y.
 Evanston, Ill.
 Bangor, Maine
 Schenectady, N. Y.
 Menlo Park, Calif.
 Augusta, Maine
 St. Louis, Mo.
 Cheshire, Conn.
 Wallingford, Conn.
 Cos Cob, Conn.
 Ann Arbor, Mich.
 Santa Barbara, Calif.
 Woonsocket, R. I.
 Chappaqua, N. Y.
 Rochester, N. Y.
 Montclair, N. J.
 Washington, D. C.
 Hanover, N. H.
 Pleasantville, N. Y.
 Fort Washington, Pa.
 Helena, Ala.
 Montclair, N. J.
 New York, N. Y.
 Elizabeth, N. J.
 New York, N. Y.
 New York, N. Y.
 Waban, Mass.

Carter, Joseph W. Jr.

Elmhurst Ill

Dickerson, Frank Secor, III	<i>Concord, Mass.</i>
Dichl, Thomas Richard	<i>Manheim, Pa.</i>
Dobson, Peter Raymond	<i>Great Neck, N. Y.</i>
Doolittle, Robert Whiting	<i>West Roxbury, Mass.</i>
Dorner, Douglas Bloom	<i>Des Moines, Iowa</i>
Dramin, Edward Irwin	<i>Springfield, Mass.</i>
Drexler, Robert Daniel	<i>Cedar Rapids, Iowa</i>
Drumm, Bernhardt Charles, Jr.	<i>Port Chester, N. Y.</i>
Dubinsky, Henry William	<i>Richmond Heights, Mo.</i>
Dybikowski, James Chester	<i>South Hadley Falls, Mass.</i>
Eiteljorg, Harrison, II	<i>Coral Gables, Fla.</i>
Emigh, John Stewart	<i>New Britain, Conn.</i>
Erickson, Carl David	<i>Pasadena, Calif.</i>
Faerber, Kent William	<i>St. Louis, Mo.</i>
Finkelstein, Jay Nathan	<i>Coral Gables, Fla.</i>
Flint, Paul Harry, Jr.	<i>Medford, Mass.</i>
Fobes, Walter Stewart	<i>St. Paul, Minn.</i>
Forgie, George Barnard	<i>Bala-Cynwyd, Pa.</i>
Franklin, John Weed, Jr.	<i>Noroton, Conn.</i>
Fraser, Robert Baird	<i>George School, Pa.</i>
Freeland, Richard Middleton	<i>Mountain Lakes, N. J.</i>
Fried, Richard Mayer	<i>Milwaukee, Wis.</i>
Garton, David, Jr.	<i>Sheboygan, Wis.</i>
Gasarch, Mark	<i>Harrison, N. Y.</i>
Gerdine, Peter Coddington	<i>Dallas, Texas</i>
German, Richard Hubbard	<i>Middletown, Conn.</i>
Gibbs, Charles Kenneth, Jr.	<i>Mount Holly, N. J.</i>
Gibbs, Leon Buster	<i>Middletown, Conn.</i>
Gliedman, Anthony Bruce	<i>Brooklyn, N. Y.</i>
Goldberg, Robert Michael	<i>Washington, D. C.</i>
Gottlieb, Kenneth Ira	<i>Brooklyn, N. Y.</i>
Grant, Stephen Hall	<i>Wellesley, Mass.</i>
Green, James Howard	<i>Wilmette, Ill.</i>
Greene, Andrew Frank	<i>Chestnut Hill, Mass.</i>
Greene, Edward Frank	<i>Wellesley, Mass.</i>
Gregory, Brooke	<i>Wayland, Mass.</i>
Griffiths, Edwin Stephen	<i>Salem, Ohio</i>
Griggs, David Norman	<i>Claremont, Calif.</i>
Grose, Peter Lewis	<i>Great Neck, N. Y.</i>
Haggerty, Peter Edward	<i>Whitinsville, Mass.</i>
Hallam, Mark Frederick, Jr.	<i>Nutley, N. J.</i>
Hanna, Ralph, III	<i>Austin, Texas</i>
Hawley, John Stratton	<i>Louisville, Ky.</i>

Hay, John Melvin
 Hemenway, Peter
 Henry, DeWitt Pawling
 Herzog, Alfred
 Holmes, David Alan
 Holmes, Robert Henry
 Holt, Wythe Whiting, Jr.
 Houghtlin, Charles Benjamin
 Howes, Robert Ingersoll, Jr.
 Huey, Burkett Wakefield, Jr.
 Israel, Daniel Harris
 Jacobson, Lewis Arthur
 Johnson, Malcolm Pratt
 Judis, John Barney
 Keith, Robert Emerson, Jr
 Kerns, Peter Jared
 Kersten, Thomas Erwin
 King, Nan
 Kissam, Philip Charles
 Klevorick, Alvin Keith
 Kraus, Charles Jungensfeld
 Langford, Stephen Arthur
 Lanning, Jerome Knox
 Larrabee, William Henry, IV
 Laux, Michael Andrew
 Leader, Andrew Michael
 Lee, Richard Hoover
 Lee, William Martens
 Lefferts, Peter Albert
 Lesser, David Matthew
 Lewis, Kenneth Arthur
 Lewis, Stephen Evarts
 Lion, Richard Morgan
 Lipschutz, Daniel Ephraim
 Lombardo, Stephen Joseph
 Lord, John Garvin, Jr.
 Louis, John Carpenter
 Luria, Edward Marx
 McCashin, Frederick Bedford
 McLeod, Dugald Carlton, Jr.
 Mackenzie, Alan Eno
 Manwell, Thomas Henry
 Maples, Frederic Arthur, Jr.

Kirkwood, Mo.
 Flossmoor, Ill.
 St. Davids, Pa.
 Doylestown, Pa.
 Wilmington, Del.
 Denver, Colo.
 Hampton, Va.
 Evanston, Ill.
 Santa Fe, N. M.
 West Hartford, Conn.
 Moylan, Pa.
 Brooklyn, N. Y.
 Hamden, Conn.
 Brookline, Mass.
 Ardmore, Pa.
 North Plainfield, N. J.
 Anaheim, Calif.
 Washington, D. C.
 Greenlawn, N. Y.
 Rego Park, N. Y.
 Kirkwood, Mo.
 Washington, D. C.
 Birmingham, Ala.
 Watertown, N. Y.
 New York, N. Y.
 Brooklyn, N. Y.
 White Plains, N. Y.
 Yorktown Heights, N. Y.
 Dundalk, Md.
 Washington, D. C.
 Ardmore, Pa.
 Minneapolis, Minn.
 Kentfield, Calif.
 Detroit, Mich.
 Pawtucket, R. I.
 Swarthmore, Pa.
 Harlan, Iowa
 Elkins Park, Pa.
 Pluckemin, N. J.
 Snyder, N. Y.
 Redding Ridge, Conn.
 Hudson, Ohio
 Nogales, Ariz.

Luzinda, Tamada

Buono, Myranda

Marritt, Emanuel	<i>Brooklyn, N. Y.</i>
Massey, Robert Keiser, Jr.	<i>Worcester, Mass.</i>
Mayer, Jeffrey Lorence	<i>Teaneck, N. J.</i>
Meneely, Henry Tucker, Jr.	<i>Annapolis, Md.</i>
Mervis, Charles Louis	<i>Oak Park, Ill.</i>
Messitte, Peter Jo	<i>Bethesda, Md.</i>
Myerson, Mark Eric	<i>Roslyn, N. Y.</i>
Michel, Arthur Greene	<i>Chicago, Ill.</i>
Miller, John Holmes	<i>Portola Valley, Calif.</i>
Miller, Ralph Lee	<i>Glencoe, Ill.</i>
Morton, Thomas Throck, Jr.	<i>Mamaroneck, N. Y.</i>
Myers, Christopher Allen	<i>Needham, Mass.</i>
Nash, John Thomas	<i>Wilmington, Del.</i>
Ncill, Jeffrey Piersol	<i>Belleville, Ill.</i>
Newmann, John Michael	<i>Highland Park, Ill.</i>
Nickerson, Jeffrey Roger	<i>Woodbridge, Conn.</i>
Noonan, Frederick William, Jr.	<i>Vergennes, Vt.</i>
Northrop, Charles Porter	<i>Rochester, N. Y.</i>
Northup, John David, Jr.	<i>Toledo, Ohio</i>
Osborn, Lawrence William	<i>Shaker Heights, Ohio</i>
Packel, Edward Wesler	<i>Merion Station, Pa.</i>
Paine, Caleb Lawrence	<i>Schenectady, N. Y.</i>
Parker, Stephen Leonard	<i>New York, N. Y.</i>
Parsons, John Timothy, III	<i>Bethel Park, Pa.</i>
Peck, Edwin Cady, Jr.	<i>Eden, N. Y.</i>
Perkins, William Eliab	<i>Bronxville, N. Y.</i>
Perry, David Lewis	<i>Dedham, Mass.</i>
Perry, Edward Franklin, Jr.	<i>Natick, Mass.</i>
Peterson, George Edward	<i>Ithaca, N. Y.</i>
Phelps, William Sabin	<i>Westfield, N. J.</i>
Pingel, John Spencer, Jr.	<i>Grosse Pointe Woods, Mich.</i>
Pliske, Thomas Edward	<i>Ann Arbor, Mich.</i>
Poole, Frank Harper	<i>Union, N. J.</i>
Powell, Benjamin Neff	<i>Sewickley, Pa.</i>
Powers, Robert Thayer	<i>Morristown, N. J.</i>
Prentiss, Peter Brett	<i>Hudson, Ohio</i>
Price, Hugh Bernard	<i>Washington, D. C.</i>
Quaglia, David Louis	<i>Braintree, Mass.</i>
Quigley, John Leslie, Jr.	<i>Rochester, N. Y.</i>
Quimby, Donald Gordon	<i>Roslyn Heights, N. Y.</i>
Reis, Randall Sicard	<i>Greenwich, Conn.</i>
Reynolds, Craig James	<i>Port Washington, L. I., N. Y.</i>
Riall, David Charles	<i>Danbury, Conn.</i>

Rodefer, Stephen James
 Rodgers, Frederic Barker
 Rohde, Jon Eliot
 Rohrbaugh, Lewis Bunker
 Rosenblum, Gerald Stephen
 Rosenbush, Robert Avrum
 Ruhl, Patrick Gregg
 Sabetta, John Carl
 Salkever, Stephen G.
 Sargent, Gary Nyflot
 Saxbe, William Bart, Jr.
 Shearwood, James Raymond
 Sheatsley, William Daniel
 Shull, Peter
 Siegel, Alexander Winston
 Sigafos, David Harvey
 Silberg, Jay Eliot
 Silver, David Jay
 Singer, Richard Gus
 Stine, Patrick Hervey
 Stine, Peter John
 Strong, William Chester
 Stuecheli, Bernard Drahmann
 Swartz, George Allen
 Switky, Frederick David
 Synnott, Burton John
 Tague, Phillip Arthur
 Tarpy, Roger Maynard, Jr.
 Tashjian, James Edward
 Tavano, Richard John
 Taylor, Michael Scallon
 Terdiman, Richard
 Thompson, Bruce Roger
 Thornburgh, James Thomas
 Thorp, Almus Morse, Jr.
 Truman, Edwin Malcolm
 vonRosenvinge, Christian Randolph
 vonRosenvinge, Tycho Tor
 Wales, Stephen Quincy
 Wanner, Harry Eric
 Warnock, John Phelps
 Warren, Alexander McDowell
 Wasby, Roger Allan

Bellaire, Ohio
Slingerlands, N. Y.
Barrington, R. I.
Rockport, Me.
New Hyde Park, N. Y.
Brooklyn, N. Y.
Davenport, Iowa
Brooklyn, N. Y.
New Paltz, N. Y.
New York, N. Y.
Mechanicsburg, Ohio
Norwalk, Conn.
Columbus, Ohio
Seymour, Conn.
Summit, N. J.
Line Lexington, Pa.
Weehawken, N. J.
Bristol, Conn.
Washington, D. C.
Flint, Mich.
Flint, Mich.
Merion Station, Pa.
Birmingham, Mich.
Denver, Colo.
Plainfield, N. J.
Darien, Conn.
Augusta, Kan.
West Hartford, Conn.
Westboro, Mass.
Milford, Mass.
Greenwich, Conn.
Larchmont, N. Y.
Danville, Calif.
Chardon, Ohio
Gambier, Ohio
New York, N. Y.
Rockport, Mass.
Rockport, Mass.
Cohasset, Mass.
Glen Mills, Pa.
Tucson, Ariz.
Sharon, Pa.
Belmont, Mass.

Smith, Joshua A.

Hegera

Weil, John David
 Weisberger, Edward Joseph
 Wells, Stuart Wilder, III
 West, Burton Carey
 Westerbeck, Colin Leslie, Jr.
 White, George Edward
 Wielandy, Frank Landon
 Willius, Daniel Jeremy
 Wilson, Noel Sydney
 Wood, William Augustus
 Woodland, Thomas Jefferson
 Woolf, Stephen Richard
 Wyler, Geoffrey David
 Wyman, John Cragin
 Wynne, Winston Wiley, Jr.
 Zehner, Robert Bolles
 Zuckerman, Thomas Matlock

St. Louis, Mo.
Scarsdale, N. Y.
Long Lake, Minn.
Pittsburgh, Pa.
Richmond Heights, Mo.
Roslyn Estates, N. Y.
St. Louis, Mo.
St. Paul, Minn.
Langhorne, Pa.
Washingtonville, N. Y.
Scranton, Pa.
Brookline, Mass.
Lakewood, N. J.
Amherst, Mass.
Coral Gables, Fla.
Nyack, N. Y.
Stockton, Calif.

Class of 1964

Adams, William Tennant
 Aikens, Louis Harold, Jr.
 Albani, Thomas Joseph
 Alcock, John
 Allen, Philip Brown
 Allison, Michael Dennis
 Angney, David Haughey
 Arbab, Farzam
 Avery, Henry Bryant
 Baker, James Newton
 Barasch, Stephen Harry
 Barth, Richard Allen
 Battocchi, Raymond Donald
 Beacco, John Albert, Jr.
 Beckford, James Palmer
 Belden, Bradford Olcott
 Bell, Cary Edward
 Benedetti, Robert Reed
 Benner, Richard Stanwood, II
 Benson, Gary Scott
 Bicknell, Neil Clement
 Bradley, Lee Richards
 Bragdon, Dale Hurd
 Bray, Douglas Bruce

Duluth, Minn.
Washington, D. C.
Hartford, Conn.
Landenberg, Pa.
Newton Centre, Mass.
Coral Gables, Fla.
Wellesley Hills, Mass.
Tehran, Iran
Charlemont, Mass.
Coos Bay, Ore.
Freeport, N. Y.
New York, N. Y.
Hartford, Conn.
Stockbridge, Mass.
Westboro, Mass.
Orange, N. J.
Mount Vernon, N. Y.
Palo Alto, Calif.
Marblehead, Mass.
Holbrook, Ariz.
Middlebury, Vt.
Weston, Conn.
South Glastonbury, Conn.
Irrington, N. J.

Brill, Jesse Miles	<i>New York, N. Y.</i>
Brokaw, John Barry	<i>Chevy Chase, Md.</i>
Bunting, David Gardner	<i>Bryn Mawr, Pa.</i>
Burkhardt, Andrew Blaine, Jr.	<i>Marshfield Hills, Ma.s.</i>
Burnett, George Brinton, III	<i>Walpole, Mass.</i>
Burns, David Dean	<i>Phoenix, Ariz.</i>
Castello, Joseph William, Jr.	<i>Easton, Conn.</i>
Chalfin, Edward Roger	<i>Brookline, Mass.</i>
Chisholm, Arthur Roland, Jr.	<i>Mohegan, R. I.</i>
Choi, Cholly	<i>Tokyo, Japan</i>
Cohen, Edwin Carlin	<i>Scarsdale, N. Y.</i>
Collins, Bradford Ray, Jr.	<i>West Springfield, Mass.</i>
Cooper, Russell John, III	<i>Essex Fells, N. J.</i>
Cornelius, Frank Setzer	<i>Gaithersburg, Md.</i>
Court, John Christian	<i>Detroit, Mich.</i>
Croze, Harvey Jerome	<i>Bloomfield Hills, Mich.</i>
Crutchfield, John Randolph	<i>Gladstone, N. J.</i>
Dardess, George Fleming	<i>Chatham, N. Y.</i>
Deem, Clark Wheeler	<i>St. Louis, Mo.</i>
Deisroth, Thomas Frederick	<i>Sugarloaf, Pa.</i>
DeLeon, Patrick Henry	<i>Waterbury, Conn.</i>
Devere, Dennis Guild	<i>Scarsdale, N. Y.</i>
Devir, Richard Patrick	<i>Verplanck, N. Y.</i>
DeWitt, Laurence Barrett	<i>Bloomfield Hills, Mich.</i>
Donaldson, William Richard	<i>Mountain Lakes, N. J.</i>
Donham, James Broadman	<i>Upton, Mass.</i>
Downs, Stephen Fosdick	<i>Bronxville, N. Y.</i>
Drotter, Stephen John, Jr.	<i>North Adams, Mass.</i>
Dubin, Mark William	<i>Bergenfield, N. J.</i>
Dunn, Michael Winfield	<i>North Amherst, Mass.</i>
Easton, Peter Abbott	<i>Stroudsburg, Pa.</i>
Ellen, Stephenson Davis	<i>Towson, Md.</i>
Emert, John Paul	<i>Chatham, N. J.</i>
Esterman, Mark Joseph	<i>Lawrence, N. Y.</i>
Farver, Albert Steele, Jr.	<i>Cambridge, Md.</i>
Feldman, Scott Milton	<i>Roslyn Heights, N. Y.</i>
Fitzgerald, Richard John, Jr.	<i>Malvern, Pa.</i>
Foster, James Malcolm	<i>Carmel, Calif.</i>
Frank, Robert Edward	<i>Arlington, Va.</i>
Frankel, Steven Alfred	<i>Bronxville, N. Y.</i>
Frey, Jonathan	<i>Scarsdale, N. Y.</i>
Fronk, Michael Paul	<i>Minneapolis, Minn.</i>
Furtwangler, Albert Joseph	<i>Seattle, Wash.</i>

Gardner, Marc Stuart	<i>Brooklyn, N. Y.</i>
Garni, Kenneth Fyfe	<i>Lima, Peru</i>
Gawthrop, Robert Smith, III	<i>West Chester, Pa.</i>
Gay, Christopher Wells	<i>Detroit, Mich.</i>
Gerhard, James Gillies	<i>Pontiac, Mich.</i>
German, James Clifford, Jr.	<i>Jenkintown, Pa.</i>
Gibbons, Mark Leigh	<i>Middleboro, Mass.</i>
Giles, James Tyrone	<i>Lynchburg, Va.</i>
Golubov, Michael M.	<i>Brooklyn, N. Y.</i>
Gormley, Thomas Joseph	<i>Hartford, Conn.</i>
Grant, Lexow Peter	<i>Chicago, Ill.</i>
Greene, Bancroft Farrar	<i>West Hartford, Conn.</i>
Groetzinger, Norman James	<i>Baltimore, Md.</i>
Guilbert, Thomas Grattan Parker	<i>Berkeley, Calif.</i>
Guthrie, Robert Ward	<i>Washington, D. C.</i>
Hall, David Arnold	<i>Cranford, N. J.</i>
Hall, Jeffrey Lyman	<i>New Canaan, Conn.</i>
Harris, Edward Wesley, II	<i>Indianapolis, Ind.</i>
Hauschka, Peter Voorhees	<i>Amherst, N. Y.</i>
Hawk, Alan Brainard	<i>Pittsburgh, Pa.</i>
Hayden, John Dodds	<i>Grosse Pointe Farms, Mich.</i>
Hebbel, Carroll Russell	<i>Baltimore, Md.</i>
Henshaw, Arthur Clement	<i>Hamilton, N. Y.</i>
Hetsko, Cyril Michael	<i>Ridgewood, N. J.</i>
Hirschberg, Roger Stanley	<i>Rochester, N. Y.</i>
Houston, Alan Fraser	<i>Wollaston, Mass.</i>
Howkins, Ben Walter	<i>New York, N. Y.</i>
Hoyt, Creig Simmons	<i>Pittsburgh, Pa.</i>
Hume, Russell James	<i>West Burlington, N. Y.</i>
Humphreys, Richard Stephen	<i>Hutchinson, Kan.</i>
Hyland, Richard Francis, II	<i>Santa Barbara, Calif.</i>
Jacobs, Thomas Price, Jr.	<i>Larchmont, N. Y.</i>
Johnson, Stuart MacLean	<i>Ladue, Mo.</i>
Jones, Howard Wilbur, III	<i>Baltimore, Md.</i>
Joslin, Richard Arthur	<i>Fair Lawn, N. J.</i>
Julavits, William Francis	<i>West Hartford, Conn.</i>
Keene, John Macauley, III	<i>Morristown, N. J.</i>
Keffer, John Young	<i>Titusville, N. J.</i>
Keith, Cary Lee	<i>Brockton, Mass.</i>
Keith, Philip Myron	<i>Merion, Pa.</i>
Kennedy, Dean Holt	<i>Glen Head, N. Y.</i>
Kiss, Stephen Howard	<i>Mamaroneck, N. Y.</i>
Klancnik, James Michael	<i>Park Ridge, Ill.</i>

Klebanow, James Elliot
 Kleinman, Peter Donald
 Knight, Harry William, Jr.
 Knox, Robert Arthur
 Kocsis, James Howard
 Kraai, Frederick Charles
 Krughoff, Robert Merrill
 Kulesza, Kenneth Henry
 Lake, Fredric David, Jr.
 Lambert, Samuel Cary
 Lane, Howard Bishop, Jr.
 Lanning, Ernest Smith, III
 Larson, Alan Everett
 Leavitt, Richard Norman
 Lecky, John Halton
 Leibowitz, Robert Daniel
 Leidich, James Allen
 Levine, Carl Fredric
 Levine, Jack John
 Lewis, Charles Ashby
 Lewis, David Kenneth
 Lewis, William Jackson, II
 Loebel, Tod Richard
 Lombardi, Donald Paul
 Lowy, Douglas Ronald
 Lundwall, Lawrence Kirk
 Lyon, Bret Stephen
 McDougall, Dugald George
 McFarland, John Whitcomb
 McWhorter, Steven Ford
 Mackay, Donald Reid
 Malinowski, Edward Joseph
 Mannal, Richard Knoll
 Manuelian, Peter Martin
 Mason, Appleton Adams, III
 Meharg, John George, Jr.
 Meisner, Mitchell Ralph
 Melnick, Peter R.
 Miller, Joel Morton
 Miller, Samuel Detwiler, III
 Mills, Roger Marion, Jr.
 Miner, James Selden, II
 Mintz, Jerome

Mount Vernon, N. Y.
Great Neck, N. Y.
Darien, Conn.
Basking Ridge, N. J.
Harwinton, Conn.
Fairport, N. Y.
White Plains, N. Y.
Hatfield, Mass.
Evanston, Ill.
Buffalo, N. Y.
Keene, N. H.
Westfield, N. J.
West Hartford, Conn.
Manchester, N. H.
Wilmington, Del.
Richmond Hill, N. Y.
Huntingdon Valley, Pa.
Brooklyn, N. Y.
Philadelphia, Pa.
Loudonville, N. Y.
North Darimouth, Mass.
Harlan, Iowa
Andover, Mass.
Huntington, N. Y.
New York, N. Y.
Gardner, Mass.
Jamaica, N. Y.
Wilmette, Ill.
Burlingame, Calif.
Omaha, Neb.
Pittsburgh, Pa.
Hatfield, Mass.
Strafford, Pa.
New York, N. Y.
Lake Forest, Ill.
Wyomissing, Pa.
Bethesda, Md.
Norfolk, Va.
Scranton, Pa.
Norristown, Pa.
Alliance, Ohio
Owosso, Mich.
Park Forest, Ill.

Mitchell, Stephen Mark
 Moon, Frederick Franklin, III
 Moran, Joseph John
 Morenus, George Mason
 Morgenroth, Eric Lee
 Morrison, William Robert
 Moss, Ralph Walter
 Muller, Richard Loveless
 Nahl, Michael Connor
 Nelson, Theodore Coburn, Jr.
 Newell, Norman David
 Newsom, Michael deHaven
 North, John Arthur
 Northrop, Jere
 Nwaogugu, Aloysius C.
 Olinger, Gordon Nordell
 Packard, Charles Anthony
 Palmer, Phillips Barry
 Palumbo, Eugene Michael
 Parker, David Lowell
 Patrick, Gerard Rowland
 Pearle, David Lee
 Pellegrin, David Monroe
 Penner, David Albert
 Perles, Henry Andrew
 Phillips, Charles Roy
 Pincus, Harry George
 Pite, William James
 Piziak, Robert
 Podell, Richard Neal
 Pomranka, Howard Reese
 Potter, David Leigh
 Pough, Frederick Harvey, Jr.
 Probst, Robert Edward
 Ramey, James North
 Randall, Charles Franklin
 Raymond, Stephen Leigh
 Rediker, Stephen Mark
 Reichardt, John Joseph
 Reilly, Terence Douglas
 Remington, John Alvah
 Rice, Willard Gardner, Jr.
 Rich, Stephen Knox

Brooklyn, N. Y.
New York, N. Y.
Hartford, Conn.
Homer, N. Y.
Thonotosassa, Fla.
Jamaica, N. Y.
Brooklyn, N. Y.
Bedford, N. Y.
Evanston, Ill.
Natick, Mass.
Amherst, Mass.
Chicago, Ill.
Somerville, N. J.
Westfield, N. Y.
Port Harcourt, Nigeria
West Hartford, Conn.
Evanston, Ill.
Cazenovia, N. Y.
Ridgewood, N. J.
Egypt, Mass.
Winchester, Mass.
Dallas, Texas
Racine, Wis.
Winchester, Mass.
Hewlett, L. I., N. Y.
Kenilworth, Ill.
New York, N. Y.
East Haven, Conn.
Hadley, Mass.
Malverne, N. Y.
Loveland, Colo.
Wilmington, Del.
New York, N. Y.
Baltimore, Md.
Bethesda, Md.
Manchester, Vt.
Pittsburgh, Pa.
North Miami, Fla.
Hartford, Conn.
Livingston, N. J.
Rochester, N. Y.
Worcester, Mass.
Buffalo, N. Y.

Richards, David Henry
 Richardson, Fred Lee
 Richardson, Gordon
 Ridley, Dennis Raymond
 Romer, Henry Fiske
 Rosenn, Daniel Wohl
 Ross, David Bennet
 Ross, Richard Rand
 Rubinstein, Peter Jay
 Ruppe, John Paul
 Sandler, Mark Joseph
 Santonelli, Robert
 Sarvis, Richard Smith
 Schmerler, Gilbert Richard
 Schneider, Allan Herbert
 Schoepfer, Arthur Edward, Jr.
 Schotté, Richard Theodore
 Scribner, David Edward
 Segal, Terry Philip
 Shaw, Richard Biller
 Sheinin, Matthew Gilbert
 Sheldon, Harvey Maynard
 Shepherd, James Banks, Jr.
 Sherk, Truman Elliott
 Shimp, Jerome Spencer
 Sim, Ian Mackenzie
 Simmon, Vincent Fowler
 Sletteland, Greggar Perry, Jr.
 Sloss, Charles Stanley
~~Smith, Joshua Ayodele~~
 Smith, Stephen Eaton
 Sommer, Charles Scudder
 Sonenstein, Burton
 Soskis, David Aaron
 Sparks, Richard Edward
 Spielman, Jon Morris
 Stauffer, Richard Scull, Jr.
 Steffens, James Jeffrey
 Stern, Paul Clinton
 Stiglitz, Joseph Eugene
 Stiles, Frank Garfield, III
 Stoudt, Geoffrey Marshall
 Stover, Charles Clark, III

Chappaqua, N. Y.
Columbus, Ohio
Gettysburg, Pa.
Portland, Ore.
Canton, N. Y.
Kingston, Pa.
Oak Park, Ill.
Whitestone, N. Y.
New York, N. Y.
Rutland, Vt.
West Hartford, Conn.
Wakefield, Mass.
Hillsdale, N. J.
Baltimore, Md.
Philadelphia, Pa.
Wellesley Hills, Mass.
Amherst, Mass.
Hudson, Ohio
West Newton, Mass.
Garden City, L. I., N. Y.
Brooklyn, N. Y.
Winnetka, Ill.
Charleston, W. Va.
New Haven, Conn.
Whitehouse Station, N. J.
Chapultepec, Mexico
Toledo, Ohio
Glenview, Ill.
Glenwood Springs, Colo.
~~*Lagos, Nigeria*~~
Pelham, Mass.
St. Louis, Mo.
Waterbury, Conn.
Brooklyn, N. Y.
Springfield, Mass.
South Orange, N. J.
York, Pa.
Devon, Pa.
New York, N. Y.
Gary, Ind.
Glen Rock, N. J.
Reading, Pa.
Colonia, N. J.

Stringer, David Hall	<i>Darien, Conn.</i>
Summers, Clarke Carney	<i>Naperville, Ill.</i>
Sunley, Emil McKee, Jr.	<i>Denver, Colo.</i>
Sussman, George David	<i>Manhasset, N. Y.</i>
Sweeney, Donald Bernard, Jr.	<i>Mountain Brook, Ala.</i>
Talbott, John Carlile	<i>Poland, Ohio</i>
Tannous, David Khalid	<i>Annandale, Va.</i>
Tendler, Robert Kanof	<i>Washington, D. C.</i>
Thompson, Charles William, Jr.	<i>Chicago, Ill.</i>
Tucker, William Gordon, Jr.	<i>Mountain Lakes, N. J.</i>
Turgeon, Thomas Snyder	<i>Amherst, Mass.</i>
Vesterman, William Robert	<i>Glen Ridge, N. J.</i>
Wadleigh, Wells Eggleston	<i>New London, Conn.</i>
Walz, Lawrence Arnold	<i>Asheville, No. Car.</i>
Wanlass, George Ralph	<i>Wyoming, Ohio</i>
Wasserstrom, Silas Jonathan	<i>Hartsdale, N. Y.</i>
Weary, William Arthur	<i>Ithaca, N. Y.</i>
Weaver, Thomas Garrard	<i>Larchmont, N. Y.</i>
Weissberg, Daniel Leo	<i>Elizabeth, N. J.</i>
Wesby, Joseph Spencer, III	<i>Worcester, Mass.</i>
White, George Harris	<i>Sharon, Mass.</i>
Whitmore, Chatland Bosler, Jr.	<i>Skaneateles, N. Y.</i>
Wilson, Joseph McCune, III	<i>Wilmington, Del.</i>
Wilson, Robert Merrill	<i>Amherst, Mass.</i>
Winter, Marcus Cole	<i>Chicago, Ill.</i>
Wintersteiner, Peter Prest	<i>New Brunswick, N. J.</i>
Witholt, Bernard	<i>Philadelphia, Pa.</i>
Wood, William Archibald, III	<i>Hudson Heights, Quebec, Canada</i>
Yager, George Frithiof	<i>Cortland, N. Y.</i>
Youmell, Robert Francis	<i>West Springfield, Mass.</i>
Ziegler, William Russell	<i>Wilton, Conn.</i>
Ziemba, Ronald Stanley	<i>Chicopee Falls, Mass.</i>

Special Students Not Enrolled as Candidates for a Degree

Borregge, Jean Omer	<i>Chartres, France</i>
Ripa, Philip Salvatore	<i>Amherst, Mass.</i>
Yost, Martha T.	<i>Amherst, Mass.</i>

SUMMARY OF ENROLLMENT

Graduate Students.....	6
Seniors.....	242 ⁴
Juniors.....	245
Sophomores.....	245 ⁹
Freshmen.....	271 ⁶⁷
Students Not Enrolled as Candidates for a Degree.....	3
TOTAL.....	1012⁴

CLASSIFICATION OF UNDERGRADUATES
BY RESIDENCE

New York.....	254 ⁴	New Mexico.....	4
Massachusetts.....	133	Washington.....	4
Connecticut.....	87 ⁸	Kentucky.....	3
Pennsylvania.....	83	Oregon.....	3
New Jersey.....	68	Nebraska.....	2
Illinois.....	47 ⁸	West Virginia.....	2
Ohio.....	38	Arkansas.....	1
Maryland.....	28	Hawaii.....	1
California.....	27	Nevada.....	1
Missouri.....	26	North Carolina.....	1
District of Columbia.....	22	Tennessee.....	1
Michigan.....	19	Utah.....	1
Minnesota.....	16	Japan.....	4
Colorado.....	11	Canada.....	2
Virginia.....	11	Korea.....	2
Wisconsin.....	11	Nigeria.....	2
Delaware.....	9	Bermuda.....	1
Rhode Island.....	9	France.....	1
Iowa.....	8	Iran.....	1
Vermont.....	8	Italy.....	1
Florida.....	7	Mexico.....	1
Maine.....	7	Peru.....	1
Alabama.....	6	Puerto Rico.....	1
New Hampshire.....	6	Switzerland.....	1
Indiana.....	5	Turkey.....	1
Texas.....	5	United Arab Republic.....	1
Arizona.....	4	Venezuela.....	1
Kansas.....	4	<i>Egypt</i>	1
		Total.....	1003⁵

V

The Alumni Associations

Alumni Associations

THE SOCIETY OF THE ALUMNI

(Annual Meeting in Commencement Week)

<i>Honorary President:</i>	GEORGE W. WILLIAMS '11
<i>President:</i>	WILLIAM G. AVIRETT '16
<i>Vice Presidents:</i>	RICHARD B. SCANDRETT '11 MERRILL CODY '21 ROBERT O. BOYD '26 SAMUEL P. HAYES, JR. '31 GARRETT R. TUCKER, JR. '36
<i>Secretary-Treasurer:</i>	J. ALFRED GUEST '33
<i>Nominating Committee:</i>	FREDERICK J. WOODBRIDGE '21, <i>Chairman</i> FRANCIS R. ST. JOHN '31 ROBERT M. MORGENTHAU '41 EUGENE C. TITTMANN, JR. '46 RICHARD F. DELIMA '51
<i>Inspectors of Election:</i>	ROY R. BLAIR '18, <i>Chairman</i> WILLIAM H. ROSS '29 H. HILLS SKILLINGS '38
<i>Committee to</i> <i>Nominate Alumni Trustees:</i>	PHILIP C. RAYE '26, <i>Chairman</i> MARCUS G. BEEBE '36 E. RAYMOND COREY '41 WALTER I. KINGSLEY '46 JOHN P. KENDALL '51

THE ALUMNI COUNCIL OF AMHERST COLLEGE

Chairman: WILLIAM G. AVIRETT, '16

Secretary: J. ALFRED GUEST, '33

Executive Committee:

JOHN B. PRIZER, '29, <i>Chairman</i>	
WILLIAM G. AVIRETT, '16, <i>ex officio</i>	GEORGE T. BRISTOL, '36
EVERETT M. HICKS, '29	EDWARD N. NEY, '46
HARRY W. KNIGHT, '31	CHARLES R. LONGSWORTH, '51

REPRESENTATIVES OF CLASSES

1884	WALTER F. WILLCOX	1927	GORDON HOLMES
1888	ALBERT S. BARD	1928	STEPHEN BROWN
1889	EDWARD FAIRBANK	1929	EVERETT M. HICKS
1891	GEORGE L. LEONARD	1930	RICHARD W. LOUD
1892	ALLAN P. BALL	1931	WILLIAM F. MERRILL
1894	CORNELIUS S. HURLBUT	1932	NORMAN W. TURNER
1897	STEPHEN RUSHMORE	1933	JOHN L. VAN WOERT
1899	EVERETT E. THOMPSON	1934	JOHN W. WHITE
1900	OSMOND J. BILLINGS	1935	ALLEN B. TEMPLE
1901	JOSEPH WARNER	1936	MINOT GROSE
1902	GEORGE C. CLANCY	1937	FAIRMAN C. COWAN
1903	ARTHUR T. FOSTER	1938	RICHMOND M. SUTHERLAND
1904	ERNEST M. WHITCOMB	1939	CHANNING B. RICHARDSON
1905	CLAUDE M. FUESS	1940	GEORGE B. DOWLEY
1906	GEORGE W. PORTER	1941	GEORGE R. YERRALL, III
1907	JOHN M. WALLER	1942	JAMES T. KAULL, JR.
1908	ROBERT H. KENNEDY	1943	ROBERT C. McADOO
1909	H. LADD SMITH	1944	FRANCIS F. FAULKNER
1910	WILLIAM R. KELLOGG	1945	DONALD W. McNEISH
1911	CARLETON B. BECKWITH	1946	MALCOLM K. SKIPTON, JR.
1912	HOWARD F. BURNS	1947	EDWIN C. VAN VALEY
1913	FREDERICK R. HALLER	1948	BRUCE K. SKIPTON
1914	RICHARD M. KIMBALL	1949	FREDERIC J. GARDNER
1915	STUART F. HEINRITZ	1950	DANIEL M. GALBREATH
1916	EDWIN H. LUTKINS	1951	DAVID D. REED
1917	C. EDGAR MAYNARD	1952	HOWARD J. BURNETT
1918	AUGUSTUS W. BENNET	1953	STERLING L. WEAVER
1920	HUBERT R. ZELLER	1954	JAMES J. BARNES
1921	STUART R. FRENCH	1955	ALAN McLEAN
1922	JOHN C. ESTY	1956	H. IRVING GROUSBECK, II
1923	L. THURSTON PENDLETON	1957	DONALD T. NIGHTINGALE
1924	RICHARD S. KYLE	1958	ROBERT E. WEST
1925	ROME A. BETTS	1959	JAMES T. BARTLETT
1926	PAUL C. FRENCH	1960	GORDON HOLMES, JR.

REPRESENTATIVES OF ALUMNI ASSOCIATIONS

Amherst Club of New York	WALTER S. BENEDICT, '26
Boston	{ REXFORD A. BRISTOL, '24
Buffalo	{ FREDERIC J. GARDNER, '49
Cape Cod	ARNOLD T. OLENA, '40
Central Massachusetts	SAM H. COBB, '13
Central New York	HARRISON G. TAYLOR, JR., '42
Chicago	DAVID G. JOHNSON, '41
Cincinnati	EDWARD K. HARDY, JR., '29
The Columbia	JAMES G. HEADLEY, '32
Columbus	JEROME B. STEINBACH, '11
Connecticut	DANIEL M. GALBREATH, '50
Connecticut Valley	DONALD B. ENGLEY, '39
Florida	{ SAMUEL T. TISDALE, '35
Indiana	{ ROBERT S. KNEELAND, '05
Michigan	DANIEL B. CAUDLE, '36
New Hampshire	FREDERIC M. HADLEY, '28
Northeastern New York	GEORGE W. WILLIAMS, '11
Northern California	FRANCIS F. FAULKNER, '44
Northern Ohio	WINFORD OLIPHANT, '34
Northwest	JOHN O. TODD, '50
Philadelphia	RICHARD S. GRAY, '53
Rhode Island	JOHN B. BEAN, '41
Rochester	{ EDWIN A. NEALE, '30
Rocky Mountain	{ ROBERT C. McADOO, '43
St. Louis	C. GEORGE TAYLOR, '39
Southern California	WILLARD C. CASE, '49
Texas (Dallas)	JOHN J. CONGER, '43
Texas (Houston)	WILLIAM T. JONES, '35
Washington, D. C.	FREDERICK S. BALE, '06
Washington State	JOHN D. HARRIS, '34
Western Pennsylvania	GARRETT R. TUCKER, JR. '36
Wisconsin	{ MALCOLM S. LANGFORD, '27
	{ CHAUNCEY B. LARRY, '27
	WILLIAM A. MACCOLL, '32
	RALPH L. HARDING, JR., '42
	HARTLEY JOYS, '39

MEMBERS AT LARGE

WILLIAM G. AVIRETT, '16	GEORGE T. BRISTOL, '36
EVERETT M. HICKS, '29	JAMES M. SELBY, '37
JOHN B. PRIZER, '29	EDWARD N. NEY, '46
HOWARD K. HALLIGAN, '30	JAMES H. BALMOS, '50
ROBERT W. WILSON, '30	ALLAN S. LERNER, '51
HARRY W. KNIGHT, '31	CHARLES R. LONGSWORTH, '51
	ROBERT W. CARINGTON, '53

Eastern and Southern Associations

THE ASSOCIATION OF BOSTON

F. FOREST DAVIDSON, *President* 11 Valley Road, Wellesley Hills
 MAURICE A. LONGSWORTH, JR., *Secretary* 68 Savoy Road, Needham 92

THE ASSOCIATION OF CENTRAL MASSACHUSETTS

JOSEPH S. WESBY, JR., *President* 6 Howatson Way, Worcester
 SAMUEL G. HILDRETH, *Secretary* 70 Elm Street, Worcester

CAPE COD ASSOCIATION

SAMUEL H. COBB, *President* P.O. Box 552, Chatham, Mass.
 NELSON STONE, *Secretary* Rendezvous Lane, Barnstable, Mass.

THE CONNECTICUT VALLEY ASSOCIATION

DURBIN H. WELLS, *President* 157 Crescent St., Northampton
 GIOVI PEREZ, *Secretary* 39 Decorie Dr., Wilbraham

THE ASSOCIATION OF CONNECTICUT

SAMUEL F. TRULL, *President* 110 Sedgwick Rd., West Hartford
 JAMES B. LYON, *Secretary* 25 Bishop Rd., West Hartford 7

THE ASSOCIATION OF NEW HAMPSHIRE

THEODORE BARRY, *President* The Phillips Exeter Academy, Exeter
 RAYMOND L. SEVERANCE, *Secretary* 72 Allison Street, Concord

THE ASSOCIATION OF RHODE ISLAND

THOMAS E. STEERE, JR., *President* 21 Weymouth St., Providence 6
 WILLIAM M. McCORMICK, *Secretary* 29 Barnes St., Providence 6

THE AMHERST CLUB OF NEW YORK

DAVID D. WATKINS, *President* So. Puerto Rico Sugar Co., 99 Wall St.
 ROBERT K. SLOTE, *Secretary* 23 W. Mill Dr., Great Neck

THE ASSOCIATION OF NORTHEASTERN NEW YORK

PRENTICE J. RODGERS, *President* 60 State St., Albany
 DONALD A. MACHARG, *Secretary* 4 Mayfair Dr., Slingerlands

THE ASSOCIATION OF CENTRAL NEW YORK

DAVID W. BREWER, *President* 300 Berkeley Dr., Syracuse 10
 JAMES CHAPMAN, *Secretary* 300 E. Hiawatha Blvd., Syracuse

THE ASSOCIATION OF BUFFALO

EVERETT MACLENNAN, *President* 645 W. Ferry St., Buffalo 22
 ROBERT E. DILLON, JR., *Secretary* 14 Meadowview Pl., Buffalo 14

THE ASSOCIATION OF ROCHESTER

STERLING L. WEAVER, *President* 31 Exchange St., Rochester 14
 G. SHELDON BRAYER, *Secretary* 343 Cromwell Dr., Rochester 10

THE ASSOCIATION OF PHILADELPHIA

IRWIN L. PARK, JR., *President* 855 Grove Ave., Flourtown
 HERBERT H. MIDDLETON, JR., *Secretary* 18 Meadows Lane, Haverford

THE ASSOCIATION OF WESTERN PENNSYLVANIA

W. ARCHIBALD IRVIN, JR., 1310 Grant Building, Pittsburgh 19
 WILLIAM V. WALLACE, *Secretary* 2837 Koppers Building, Pittsburgh 19

THE ASSOCIATION OF WASHINGTON, D. C.

HAROLD D. FANGBONER, *President* 3708 Kenilworth Drive, Chevy Chase 15
 ROBERT D. MILLER, *Secretary* 924 14th St., N.W., Washington 5

THE ASSOCIATION OF SOUTHERN FLORIDA

CHRISTIAN KEEDY, M.D., *President* 5295 S. W. 92 St., Miami
 C. RICHARD FAUNT, *Secretary* 4231 Ingraham Highway, Coconut Grove, Miami

Central and Far Western Associations

THE ASSOCIATION OF NORTHERN OHIO

WILLIS M. MCFARLANE, *President* 914 Superior Bldg., Cleveland 14
 WILLIAM W. FALSGRAF, *Secretary* Union Commerce Bldg., Cleveland 14

THE ASSOCIATION OF COLUMBUS

KEITH McNAMARA, *President* 50 E. Broad St., Columbus
 THEODORE G. MIXER, *Secretary* 3321 Security Dr., Grove City

THE ASSOCIATION OF CINCINNATI

JAMES G. HEADLEY, *President* 8280 Kugler Mill Rd., Cincinnati 27
 DAVID H. POTTENGER, *Secretary* 18 Ritchie Ave., Wyoming

THE ASSOCIATION OF INDIANA

H. PRENTICE BROWNING, *President* American Fletcher National Bank &
 Trust Co., Indianapolis
 ROBERT V. MERRELL, *Secretary* Borg-Warner Corp., 402 S. Illinois St.,
 Indianapolis

THE ASSOCIATION OF MICHIGAN

J. HOWELL VAN AUKEN, *President* 1603 Ford Bldg., Detroit 26
 JON P. DESENBERG, *Secretary* 1514 Poplar Ave., Royal Oak, Mich.

THE ASSOCIATION OF CHICAGO

THOMAS R. BLATCHFORD, *President* Wayne Rd., Wayne
 BRIERLY W. ANDERSON, *Secretary* 310 South Michigan Ave., Chicago 4

THE ASSOCIATION OF WISCONSIN

VERNE R. READ, JR., *President* 3533 No. Shepard Ave., Milwaukee 11
 THOMAS F. NELSON, *Secretary* First Wisconsin National Bank Bldg.,
 Milwaukee 2

THE ASSOCIATION OF ST. LOUIS

WILLIAM E. BALL, *President* 8870 Ladue Rd., Clayton 24
 JOHN J. SHILLINGTON, JR., *Secretary* 200 Chouteau Ave., St. Louis 2

THE ASSOCIATION OF THE NORTHWEST

JOSEPH R. KINGMAN, III, *President* First National Bank, 120 So. Sixth
 St., Minneapolis 2
 PETER M. ROGERS, *Secretary* Superior Separator Co., 121 Washington
 Ave. So., Hopkins

THE ROCKY MOUNTAIN ASSOCIATION

JOHN J. CONGER, *President* 1195 South Honey Way, Denver
 GIBSON GARDNER, *Secretary* 4525 East Colfax Ave., Denver

THE ASSOCIATION OF DALLAS, TEXAS

WILLIAM R. CHAPPELL, *President* P. O. Box 3147, Dallas 21
 EDWARD D. COBB, *Secretary* 12605 Hillcrest Rd., Dallas 30

THE ASSOCIATION OF HOUSTON, TEXAS

DOUGLAS S. CRAIG, *President* 7503 Riverview Way, Houston 27

THE ASSOCIATION OF SOUTHERN CALIFORNIA

FREDERICK S. BALE, *President* 1000 So. Madison Ave., Pasadena 5
 ROBERT L. HICKS, *Secretary* 7613 Willow Glen Rd., Los Angeles 46

THE ASSOCIATION OF NORTHERN CALIFORNIA

CHARLES T. PLOUGH, *President* 2324 Olympic Ave., Menlo Park
 NIXON C. ELLIOTT, JR., *Secretary* 628 Woodstock Rd., Hillsborough

THE ASSOCIATION OF WASHINGTON

WELLES R. WILEY, *President* 4603 E. 38th St., Seattle 5
 JAMES L. TUCKER, *Secretary* 3355 E. 182nd St., Seattle 55

THE ASSOCIATION OF THE COLUMBIA

ROBERT F. YOUNG, *President* 8112 N. E. Oregon St., Portland 13
 JOHN R. SKEELE, *Secretary* 1810 Kauffman St., Vancouver

Foreign Associations

THE ASSOCIATION OF JAPAN

TAKEO UCHIDA, *President* Mitsubishi Electric Mfg. Co., No. 3
 2 chome, Marunouchi, Tokyo
 MICHIO MIZOGUCHI, *Secretary* Foreign Office, Kasumigaseki,
 Chiyodaku, Tokyo

THE ASSOCIATION OF PARIS

CHARLES TOREM, *President* 4 rue Marboeuf, Paris 8, France
 FREDERICK W. BEEKMAN, *Honorary President* 261 Blvd. Raspail, Paris, France
 ARCHIE L. TAYLOR, JR., *Secretary* Taylor Travel Service, 11 rue
 Taitbout, Paris 9

VI

Appendix

Appendix

SCHOLARSHIP FUNDS

The following is a list of the Scholarship Funds of the College, as of June 30, 1959, the income of which is available for Scholarships and other forms of Student Aid.

Frederick S. Allis Scholarship Fund.....	\$ 4,065.00
Anderson Scholarship.....	1,870.00
Frank L. Babbott Scholarship.....	10,000.00
Lydia Richardson Babbott Endowment Fund.....	50,000.00
Danforth Keyes Bangs Scholarship Fund.....	4,000.00
Edmund P. Barker and Susan Marvin Barker Scholarship Fund.....	8,107.06
Ivory H. Bartlett Scholarship Fund.....	5,000.00
Beecher Scholarship Fund.....	86,470.13
Albion F. Bemis Scholarship Fund.....	2,000.00
Borden Scholarship.....	1,870.00
Dolly Coleman Blake Scholarship Fund.....	1,000.00
Chandler Matthews Bray Scholarship Fund.....	19,932.08
William Louis Bray Class of 1858 Scholarship Fund.....	100.00
Bazil W. Brown, '53.....	200.00
Alexander H. Bullock Scholarship Fund.....	1,500.00
George M. Butler Class of 1897 Scholarship Fund.....	1,000.00
Butts Scholarship Fund.....	11,276.50
John A. Callahan Scholarship Fund.....	7,770.00
Joseph Carew Scholarship Fund.....	1,046.40
George B. Carter '06 Scholarship Fund.....	2,000.00
Centennial Gift.....	123,400.00
The Charitable Fund.....	131,521.23
Edwin Clapp Scholarship.....	4,625.00
Est. of Ellen C. Clapp.....	1,000.00
Jefferson Clark Scholarship Fund.....	10,000.00
The Lewis F. Clark Scholarship Fund.....	10,000.00
Class of 1826 Scholarship Fund.....	500.00
Class of 1831 Scholarship Fund.....	1,255.00
Scholarship of the Class of 1836.....	1,250.00
Scholarship Fund of the Class of 1839.....	1,200.00
Scholarship Fund of the Class of 1844.....	500.00
Class of 1845 Scholarship Fund.....	1,000.00
Class of 1846 Scholarship Fund.....	1,000.00
Class of 1849 Scholarship Fund.....	1,000.00

Class of 1850 Scholarship Fund.....	\$ 1,230.00
Class of 1852 Scholarship Fund.....	1,000.00
Class of 1853 Scholarship Fund.....	1,500.00
Class of 1855 Scholarship Fund.....	1,121.83
Scholarship Fund of the Class of 1856.....	1,000.00
Class of 1857 Scholarship Fund.....	1,500.00
Scholarship Fund of the Class of 1858.....	1,250.09
Class of 1859 Scholarship Fund.....	2,650.00
Class of 1860 Scholarship Fund.....	3,000.00
Class of 1861 Scholarship Fund.....	3,000.00
Class of 1865 Scholarship Fund.....	1,008.31
Class of 1869 Scholarship Fund.....	2,670.76
Scholarship Fund of the Class of 1871.....	2,186.11
Class of 1873 Scholarship Fund.....	5,000.00
Class of 1877 Scholarship Fund.....	2,500.00
Class of 1880 Scholarship Fund.....	3,038.96
Class of 1897 Scholarship.....	4,000.00
Composite Scholarship Fund—Classes of 1829, '35, '38, '66, '67, '70.....	1,262.28
1927 Memorial Fund.....	11,526.00
Class of 1928 25-Year Memorial Fund.....	14,107.00
Class of 1929 25-Year Memorial Fund.....	11,411.00
Class of 1930 25-Year Memorial Fund.....	20,123.00
Class of 1931 25-Year Memorial Fund.....	16,261.00
Class of 1932 25-Year Memorial Fund.....	25,317.36
Class of 1933 25-Year Memorial Fund.....	26,773.17
Class of 1934 25-Year Memorial Fund.....	19,827.31
Class of 1935 25-Year Memorial Fund.....	26,986.36
Class of 1936 25-Year Memorial Fund.....	10,361.37
Class of 1937 25-Year Memorial Fund.....	12,102.68
Class of 1938 25-Year Memorial Fund.....	7,071.10
Class of 1939 25-Year Memorial Fund.....	4,311.91
E. C. Converse Scholarship Fund.....	50,000.00
George Cook Scholarship Fund.....	1,050.00
William Lyman Cowles Class of 1878 Scholarship Fund..	3,000.00
Miner D. Crary Scholarship Fund.....	12,113.00
Crosby Memorial Scholarship Fund.....	27,000.00
Solomon Frederick Cushman '14 Loan Fund.....	1,000.00
William Cutler and Harriette Gilbert Cutler Memorial Scholarship.....	15,520.00
Day Benevolent Fund.....	5,000.00
John E. Day Scholarship Fund.....	4,000.00
Enos Dickinson Scholarship Fund.....	1,258.33

Sidney and Hannah Dillon Fund.....	\$ 5,000.00
The Dodge Fund.....	4,841.38
W. F. Draper Scholarship Fund.....	2,550.00
Charles R. Drew Memorial Scholarship.....	10,166.00
Est. of George H. Duncan '99.....	2,500.00
Lucius R. Eastman Fund.....	10,000.00
James M. Ellis Fund.....	5,056.11
Robert Houghton Esty Scholarship Fund.....	10,086.48
Addison Alvord Ewing Scholarship Fund.....	9,000.00
Isaac D. Farnsworth Scholarship Fund.....	3,000.00
John Fletcher '07.....	250.00
The Thomas P. Field Scholarship Fund.....	10,000.00
Fiske and Warren Scholarships.....	2,787.44
Daniel M. Galbreath Scholarship Fund.....	10,019.00
Augustine Milton Gay Scholarship Fund.....	5,056.44
Emerson Gaylord Scholarship Fund.....	8,000.00
Mrs. Emily W. Giese.....	6,482.41
Henry Hill Goodell Class of 1862 Scholarship Fund.....	2,000.00
Harry P. Greeley Scholarship Fund.....	15,256.06
Greene Scholarship.....	1,000.00
Greenfield Foundation.....	1,500.00
The Henry Gridley Scholarship of the Class of 1862.....	2,060.49
Vernon P. Gilbert Memorial Scholarship Fund.....	467,163.04
Est. William O. Gilbert.....	100,089.02
Thomas Hale Scholarship Fund.....	1,000.00
George A. Hall Scholarship Fund.....	5,000.00
William Hilton Scholarship Fund.....	50,000.00
Hitchcock Scholarship Endowment.....	11,270.00
George Frisbie Hoar Fund.....	1,000.00
Clarissa Dodge Howard Scholarship Fund.....	10,000.00
William R. Howard Scholarship Fund.....	5,000.00
The Hubshman Foundation Scholarship Fund.....	31,580.00
John Montgomery Hunter Scholarship Fund.....	27,731.69
Mary W. Hyde Scholarship Fund.....	1,000.00
Sarah B. Hyde Scholarship Fund.....	1,000.00
Infirmity Aid Fund.....	2,100.00
A. J. Johnson Scholarship Fund of the Class of 1823.....	1,046.40
Herbert B. Johnson '14 Scholarship Fund.....	1,555.32
Victor S. Johnson Student Loan Fund.....	6,500.00
Edward P. Judd Memorial Scholarship Fund.....	15,492.00
Eugene Kimball Scholarship Fund.....	2,000.00
John C. Kimball Scholarship.....	1,000.00
Est. of John H. Klingensfeld.....	5,000.00

Knowles Scholarship Fund	\$ 3,000.00
Payne P. Larsen, in memory of Frederick B. Richardson . .	5,335.83
Andrew D. Lawrie Scholarship Fund	101,575.00
Henry Lobdell Scholarship Fund	2,000.00
George Long Memorial Scholarship Fund	745.00
Ludington Scholarship Fund	100,000.00
Charlotte Procknow McClelland Fund	500.00
George W. McFadden, Jr. Scholarship Fund	5,554.97
Francis J. Marsh Memorial Fund	5,000.00
Charles Merriam Scholarship	2,415.00
Charles E. Merrill Scholarship Fund	23,400.00
Charles Morton Merrill Fund	100,000.00
J. C. B. Miller Scholarship Fund	1,000.00
Moore Beneficiary Fund	41,214.58
Charles F. Morse Scholarship Fund	225.00
Anson Daniel Morse Memorial Scholarship Fund	2,500.00
C. L. Morse Scholarship Fund	2,000.00
George A. Morse Memorial Scholarship Fund	46,758.51
Harold Ely Morse Memorial Scholarship Fund	2,500.00
J. C. Newton Scholarship Fund	1,230.00
LaVerne Noyes Foundation	60,630.09
Newton Scholarship Fund	1,000.00
Edward H. Perkins Jr. Scholarship Fund	5,000.00
Persian Scholarship Fund	2,082.85
Asa Clinton Pierce Scholarship Fund	5,000.00
George D. Pratt Scholarship Fund	49,462.50
President's Loan Fund	15,000.00
Reed Scholarships	2,500.00
George Milton Reed Scholarship Fund	5,056.11
Emily B. Ripley Scholarship Fund	1,000.00
S. Robinson Scholarship Fund	3,000.00
E. Russell Scholarship Fund	8,000.00
Lowell Russell Scholarship Fund	1,041.94
John E. Sanford Class of 1851 Scholarship Fund	10,000.00
Schroeder Memorial Fund	10,914.00
James S. Seymour Scholarship Fund	5,000.00
Est. Mary Shores	8,000.00
Andrew Baird Simpson Scholarship Fund	5,000.00
Ellis R. Smith Scholarship Fund	500.00
Harry deForest Smith Scholarship Fund	5,316.76
Isaac F. Smith Student Loan Fund	10,747.06
Luther Ely Smith Memorial Fund	12,356.00
Wells Southworth—Class of 1822 Scholarship Fund	1,280.00

Special Endowment Fund No. 2.....	\$ 25,000.00
Charles J. Staples Memorial.....	25,000.00
Harold Parker Stevens Fund.....	32,964.17
Caleb Stimson Fund.....	19,900.00
Stone Educational Fund.....	25,000.00
Frederic N. Stone Scholarship Fund.....	4,924.17
Harlan F. Stone Memorial Scholarship Fund.....	35,000.00
Henry E. Storrs Scholarship Fund.....	5,000.00
Charles Snow Thayer Scholarship Fund.....	1,000.00
L. H. Thayer Scholarship Fund.....	5,000.00
Est. of Etta B. Thompson.....	297,934.16
Elizabeth W. McCormick Tucker Scholarship Fund.....	1,000.00
Bessy Tucker Scholarship Fund.....	13,344.48
Quincy Tufts Scholarship Fund.....	2,000.00
Sarah Tuttle Scholarship Fund.....	1,042.00
W. S. Tyler of the Class of 1830 Fund.....	1,000.00
George H. Watson Memorial Fund.....	62,705.79
Edwin P. Wells Scholarship Fund.....	32,295.43
Whitcomb Scholarship Fund.....	12,000.00
Donald G. White Jr. Memorial Fund.....	3,298.00
Herbert Otis White Scholarship Funds.....	12,000.00
Whitehall Foundation, Inc.....	1,000.00
Est. Herbert P. Whitney '98.....	500.00
Elmer W. Wiggins Fund.....	118,539.74
Harry Wilbur Scholarship Fund.....	5,000.00
David Winslow Scholarship Fund.....	200.00
Henry Lawrence Wilkinson Memorial Fund.....	5,000.00
The Williams Scholarship Fund.....	257.80
Worcester Scholarship Fund.....	5,000.00

\$3,172.883.55

Index

Index

- Administration 33
 - Attendance 33
 - Health 34
 - Occupational guidance 36
 - Records and reports 34
 - Rooms and board 34
 - Student discipline 33
 - Terms and vacations 33
- Admission 29
 - Advancement Placement 31
 - Application for 29
 - Cooperative Engineering program 32
 - Examinations 31
 - From other colleges 31
 - Interview hours 29
 - Regents examinations 31
- Alumni Associations 193
 - Central and far western 199
 - Eastern and southern 198
 - Foreign 200
- Alumni Council 195
 - Association representatives 197
 - Class representatives 196
 - Members at large 197
- American Studies 52
- Amherst College 18
- Amherst College Library 16
- Amherst curriculum 46
- Amherst, residents of 41
- Anthropology 56
- Application fee 29
- Assistants 13
- Associate 13
- Astronomy 56
- Attendance 33
- Bachelor of Arts 42
- Beneficiary aid 39
- Bills, payment of 37
- Biology 58
- Board 34
- Bond Fifteen 138
- Calendar 4
- Chemistry 62
- Classics 65
- College Board tests 31
- College calendar 5
- Committees of the corporation 7
- Committees of the faculty 13
- Comprehensive fee 37
- Contents 3
- Cooperative Engineering program 32
- Corporation of the College 6
- Course descriptions 51
 - Independent Reading 51
 - American Studies 52
 - Anthropology 56
 - Astronomy 56
 - Biology 58
 - Chemistry 62
 - Classics 65
 - Dramatic Arts 69
 - Economics 71
 - Education 75
 - English 75
 - Fine Arts 79
 - French 82
 - Geology 87
 - German 89
 - Greek 66
 - History 93
 - Humanities 100
 - Italian 100
 - Latin 67
 - Legal Studies 101
 - Mathematics 102
 - Music 105

- Philosophy 109
- Physical Education 113
- Physics 113
- Political Sciences 117
- Psychology 121
- Public Speaking 124
- Religion 125
- Russian 127
- Science 128
- Senior Colloquium 51
- Spanish 130
- Curriculum, the Amherst 46
- Degree fee 38
- Degrees 42
 - Bachelor of Arts 42
 - Conferred, 1960, 158
 - Honorary 163
 - Master of Arts 42
 - With honors 44
- Delta Sigma Rho 138
- Discipline 33
- Dormitory room 34
- Doshisha University, 26
- Dramatic Arts 69
- Economics 71
- Education 75
- English 75
- Enrollment 167
 - Summary of 190
- Expenses 37
- Faculty 9
- Faculty committees 13
- Faculty Statement on Intellectual Responsibility 47
- Fees 37
- Fellows 14
- Fellowships 139
- Financial Aid 39
- Fine Arts 79
- Folger Shakespeare Library 25
 - Officers 25
- Four College Cooperation 24, 42
- French 82
- General information, 18
- Geology 87
- German 89
- Greek 66
- Guarantee deposit 38
- Health 34
- Health fee 37, 34
- History 93
- Hitchcock Memorial Room 16
- Honorary degrees 163
- Honors 136
 - Bond Fifteen 138
 - Degree with 44
 - Delta Sigma Rho 138
 - Phi Beta Kappa 136
 - Sigma Xi 137
- Humanities 100
- Independent Reading Course 51
- Instruction, courses of 51
- Intercollegiate athletics fee 37
- Italian 100
- Kirby Memorial Theatre 17
- Language requirements 44
- Latin 67
- Lectureships 135
- Legal Studies 101
- Loan funds 40, 41
- Master of Arts 42
- Mathematics 102
- Medal for Eminent Service 163
- Medical care 34
- Mead Art Building 16
- Merrill Center for Economics 26
- Music 105
- Occupational guidance 36
- Officers of administration 8

Payment of bills 37
 Phi Beta Kappa 136
 Philosophy 109
 Physical Education 113
 Physics 113
 Political Science 117
 Pratt Geology Museum 16
 Presidents of Amherst 18

Prizes and awards 146

Art 146
 Astronomy 151
 Biology 146
 Chemistry 146
 Citizenship 154
 Dramatics 147
 Economics 147
 English 148
 Fine Arts 149
 Geology 146
 Greek 149
 Journalism 150
 Latin 150
 Mathematics 151
 Medicine 146
 Miscellaneous 156
 Philosophy 152
 Physical Education 152
 Physics 151
 Political Science 152
 Public Speaking 152
 Religion 152
 Scholarship 154
 Psychology 121
 Public Speaking 124

Records and reports 34
 Regents examinations 31
 Religion 125
 Religious Advisors 17
 Requirements for degrees 42
 Residents of Amherst 41
 Rooms 34
 Russian 127

Scholarships 39

Scholarship funds 203
 Scholarship prizes 154
 Science 128
 Senior Colloquium 51
 Sigma Xi 137
 Snell Museum of Physics 16
 Society of the Alumni 195
 Spanish 130
 Student activities tax 38
 Student discipline 33
 Student Health 34
 Student loan funds 41
 Summary of enrollment 190
 Summary of expenses 37

Terms and vacations 33

Transfer students 31
 Trustees 6
 Tuition and fees 37
 Residents of Amherst 41

Vacations 5, 33

Wildlife Sanctuary 16

